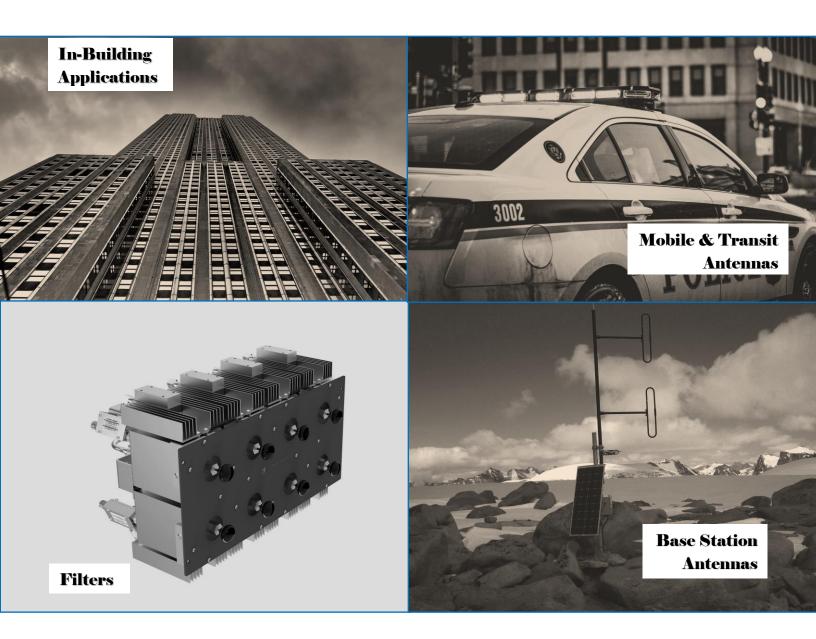


Market Leader and Partner of Choice for all your Radio-Frequency Communication Needs



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As the market leader in the designing and manufacturing of RF Antennas, Filtering Systems and In-Building solutions, we at Comprod put innovation and customer satisfaction at the core of our business strategy. Over the past 40 years, we have set ourselves apart by adapting our offering to our client needs, while anticipating future industry trends and opportunities.

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Our product catalog includes a portfolio of products that operate in the 27 MHz to 3.5 GHz frequency range:

Antennas

- Base Station Antennas
- Antenna Mounting Clamps
- Mobile/Transit Antennas
- Disguised Antennas (Covert Applications)

Filters

- Tx/Rx Combiners (VHF, UHF, 700/800/900MHz)
- Mobile Duplexers
- Isolators
- Receiver Multicoupler Systems
- Multicouplers (VHF, UHF, 700/800/900MHz)
- Duplexers (VHF, UHF, 700/800/900MHz)
- Couplers/Combiners/Dividers

In-Building Systems

- Single/Dual/Tri Band (VHF, UHF, 700/800/900MHz)
- Signal Boosters, including Uni-Directional and Bi-Directional Amplifiers (VHF, UHF, 700/800/900MHz)



This catalog provides detailed electrical and mechanical specifications. These specifications are subject to change without notice.





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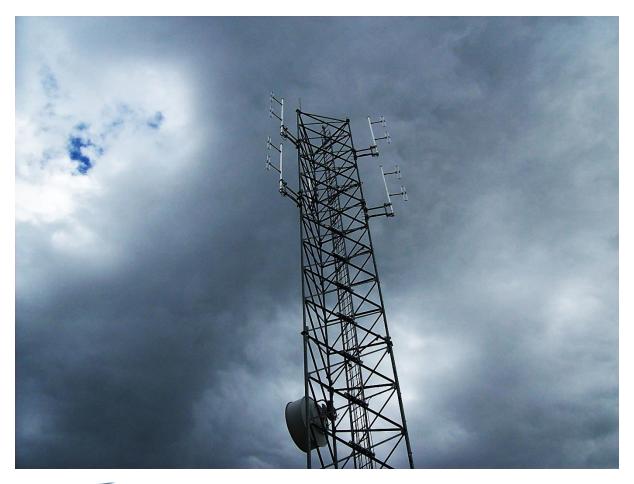


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Base Station Antennas





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www.comprodcom.com

Renowned for their superior performance, quality and reliability, our antennas are designed to excel in the most hostile environments.

Manufactured with the highest quality electrical and mechanical components, built with precision and strength, they feature sealed cable connections, crimped and soldered connectors, moisture-resistant wire harnesses and welded junctions which make them ideally suited for Mission-Critical applications.

Our technical sales and support staff will be pleased to help you select the right product for your application from our broad variety of market-proven products. Our antennas can also be tailored to fit specific needs, based on unique RF network or product applications (e.g.: increased mast height for higher elevation mounting, customized mast separated into two sections for easier handling inside elevators, etc.).

This catalog summarizes our most popular designs, documenting their electrical and mechanical specifications, images and RF propagation patterns: Data files for these antenna patterns can also be downloaded from our website in multiple formats, or on demand from our support team in any of the other popular data formats suitable for your network planning software.

KEY FEATURES AND OPTIONS:

1. Heavy-duty – Higher strength, designed to perform in high wind load, or unique situations where stronger designs are warranted.

2. Welded Design – All mechanical junctions are welded where possible to increase loading strength. This is ideal for high winds and winter conditions.

3. Black Anodized – A chemical-conversion coating ("Black Anodization") that is incorporated throughout the antenna assembly, colored black to absorb the sun's radiation to promote de-icing of the antenna. The anodization process results in enhanced protection against corrosive elements such as salty air, high humidity, and other corrosive environments (e.g. mining or petrochemical sites). The electrical performance and product life of the antenna is extended with this option.

4. Cable Lengths – Standard length of 2 feet. The feed line length can be adapted to your needs (up to 125 ft.).

5. Connectors – Type N is our standard connector, alternates can be ordered per requirements (e.g. SMA, TNC, DIN 7/16, etc.).

6. Custom Mounting Configurations can be offered depending on the style of antenna.

7. Custom Antennas – different frequency elements on single masts, different patterns (offset, opposing); dual assembly antennas, etc. Our Solutions Specialists can work to adapt a standard design to your unique coverage or installation requirements.





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Model	Other	118-	138-	406-	746-	BW*	Туре	Pattern	Gain	Watts
		138	174	512	960	1.5:1			dBd	
265-70		•	•			6%	Ground Plane	Omni	1	300
266-70		•	•			1%	Ground Plane	Omni	2-3	250
267-70		118-137				15%	Ground Plane	Omni	1	250
268-70				406-470		1%	Ground Plane	Omni	2-3	100
201-70	25-174	•	•			2%	Omni	Omni	1	500
301-70				•		20	Omni	Omni	1	100
401-70					•	10%	Omni	Omni	1	100
928-70					•	75	Collinear Omni	Omni	8.5	500
531-70	30-76					7%	Exposed Dipole	Offset	2.5	300
532-70	30-76					7%	Exposed Dipole	Offset	5.5	300
871F-70-F	88-108					20	Exposed Dipole	Offset	2	200
872F-70-F	88-108					20	Exposed Dipole	Offset	5	450
874F-70-F	88-108					20	Exposed Dipole	Offset	8	450
871F-70-A		•				20	Exposed Dipole	Offset	2	200
872F-70-A		•				20	Exposed Dipole	Offset	5	450
874F-70-A		•				20	Exposed Dipole	Offset	8	450
871F-70			•			36	Exposed Dipole	Offset or Bi	2	200
872F-70			•			36	Exposed Dipole	Offset or Bi	5	450
874F-70			•			36	Exposed Dipole	Offset or Bi	8	450
871F-70-2	215-225					10	Exposed Dipole	Offset or Bi	2	200
872F-70-2	215-225					10	Exposed Dipole	Offset or Bi	5	300
874F-70-2	215-225					10	Exposed Dipole	Offset or Bi	8	500
871A-70-LM			•			36	Exposed Dipole	Offset or Bi	2	200
872A-70-LM			•			36	Exposed Dipole	Offset or Bi	5	450
874A-70-LM			•			36	Exposed Dipole	Offset or Bi	8	500
832-70			148-174			14	Exposed Dipole	Offset	3/6	500
834-70			148-174			14	Exposed Dipole	Offset	6/9	500
882-70-A		108-138				30	Dipole Array	Omni or Bi	3/5.5	450
884-70-A		108-138				30	Dipole Array	Omni or Bi	6/8.5	500
882-70			•			36	Dipole Array	Omni or Bi	3/5.5	450
884-70			•			36	Dipole Array	Omni or Bi	6/8.5	500
771-70				•		106	Exposed Dipole	Offset or Bi	2	75
772-70				•		106	Exposed Dipole	Offset or Bi	5	150
774-70				•		106	Exposed Dipole	Offset or Bi	8	300

*BW = Bandwidth in MHz or % of Center Frequency (CF)



Model	Other	118-	138-	406-	746-	BW*	Туре	Pattern	Gain	Watts
		138	174	512	960	1.5:1			dBd	
778-70				•		64	Exposed Dipole	Offset or Bi	11	300
782-70				•		64	Dipole Array	Omni or Bi	3-5.5	300
784-70				•		64	Dipole Array	Omni or Bi	6-8.5	300
776-70				•		106	Dual Dipole	Offset	5	300
876-70			•			36	Dual Dipole	Offset	5	300
F-3676			•	406-470		36/64	Dual Dipole	Offset	8	300
F-3661			•	406-470		36/106	Dual Dipole	Offset	5	300
F-3647			•	406-470		36/106	Dual Dipole	Offset	2	300
F-3729			•			36	Reflector	Directional	2.5	200
F-3713			•			36	Reflector	Directional	7	450
F-3766			•			36	Reflector	Directional	9	450
792-70					•	150	Encl. Dipole	Offset	5	150
794-70					•	150	Encl. Dipole	Offset	8	300
799-70					•	150	Encl. Dipole	Offset	10	500
792-70-R					•	150	Encl. Dipole	Directional	Up to 8	150
794-70-R					•	150	Encl. Dipole	Directional	Up to 13	300
799-70-R					•	150	Encl. Dipole	Directional	Up to 15	500
291-70			•			36	Yagi	Directional	3.5	350
295-70			•			4%	Yagi	Directional	6.5	350
290-70			•			4% C F	Yagi	Directional	9.5	350
250-70			•			36 (2:1)	Yagi	Directional	7	250
291-70-2	215-225					10	Yagi	Directional	3.5	350
295-70-2	215-225					10	Yagi	Directional	6.5	350
290-70-2	215-225					10	Yagi	Directional	9.5	350
F-3872				•		24	Yagi	Directional	3.5	350
433-70				•		24	Yagi	Directional	6.5	350
430-70				•		24	Yagi	Directional	10	350
480-70				406-470		64	Yagi	Directional	10	350
982-70					•	30	Yagi	Directional	3.5	200
983-70					•	85	Yagi	Directional	6.5	200
980-70					•	85	Yagi	Directional	10	200
987-70					•	85	Yagi	Directional	12	200
490-70					806-960	85	Yagi	Directional	10	200
425-70				•		20	Radome Yagi	Directional	10	250
426-70				•		20	Radome Yagi	Directional	10	250



Model	Other	118- 138	138- 174	406- 512	746- 960	BW* 1.5:1	Туре	Pattern	Gain dBd	Watts
490-70-R					•	72	Radome Yagi	Directional	10	150
470-70			132-174			15% C F	Corner Refl.	Directional	7	250
471-70			132-174			15% C F	Corner Refl.	Directional	10	250
470-70-2	215-225					10	Corner Refl.	Directional	7	250
471-70-2	215-225					10	Corner Refl.	Directional	10	250
440-70				•		64	Corner Refl.	Directional	9.5	100
442-70				•		64	Corner Refl.	Directional	12	100
365-70				406-470		20	Parabolic Refl.	Directional	15	250
965-70					764-960	72	Parabolic Refl.	Directional	16.5	200
635-70			132-174			42	Log Periodic	Directional	6	500
645-70			132-174			42	Log Periodic	Directional	6	500
638-70			132-174			36	Log Periodic	Directional	8	500
415-70				•		40	Log Periodic	Directional	1	250
465-70				•		64	Log Periodic	Directional	6	250
			*BW = Bar	ndwidth in	MHz or %	of Center	Frequency (CF)			



GROUND PLANE ANTENNA

Ground Plane Antenna Series

The Ground Plane Antenna Series are available in VHF and UHF configurations. These omnidirectional antennas are either wide band unity or 2-3 dB gain antennas. They are constructed from high strength, corrosion resistant aluminum alloy and stainless steel. All our antennas can be completely customized to your particular applications.

- Each antenna has a rugged design to withstand the most extreme environmental conditions. •
- Wide frequency band applications. •
- The mounting hardware supplied will permit 0.75" to 2.38" O.D. pipe installation. •
- DC ground for lightning protection. •
- Ideal for mounting on buildings.

Electrical Specifications	265-70	266-70	267-70	268-70
Frequency Range, MHz (in splits)	118-174	118-174	118-137	406-470
Nominal Gain	Unity	2.0-3.0 dBd	Unity	2.0-3.0 dBd
Bandwidth 1.5:1 VSWR, MHz (% Ctr. Freq.)	6%	1%	15.6% (2:1)	1%
Tuning	Field Adj.	Field Adj.	Fixed	Field Adj.
Polarization	Vertical	Vertical	Vertical	Vertical
Vertical Beamwidth (Ver. Pol.)	80°	40°	71º	38º
Pattern	Omni	Omni	Omni	Omni
Power Rating, Watts	300	250	250	100
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	265-70	266-70	267-70	268-70
Max. Length, in (mm)	58 (1473)	108 (2743)	67 (1702)	46 (1168)
Width, in (mm)	55 (1397)	46 (1168)	26.5 (673)	20 (508)
Weight, lbs. (kg)	6.8 (3.3)	6.5 (3.0)	6.0 (2.7)	1.5 (0.7)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)	125 (201)	125 (201)	125 (201)
Rated Wind Velocity, 0.5" (13mm) Ice, mph	140(225)	85 (137)	110 (177)	85 (137)
Lateral Thrust @ 100 mph wind, lbs. (kg)	31.8 (14.4)	40 (18.1)	24 (10.7)	7.3 (3.3)
Bending Moment @top clamp: 100 mph, ft.*lb	41 (5.7)	94 (13)	28 (3.9)	12 (1.6)
Projected Area, ft ² (m ²)	1.2 (0.110)	1.57 (0.146)	0.88 (0.082)	0.27 (0.03)
Mounting Hardware Included	167-85 Clamp	167-85 Clamp	167-85 Clamp	167-85 Clamp

10

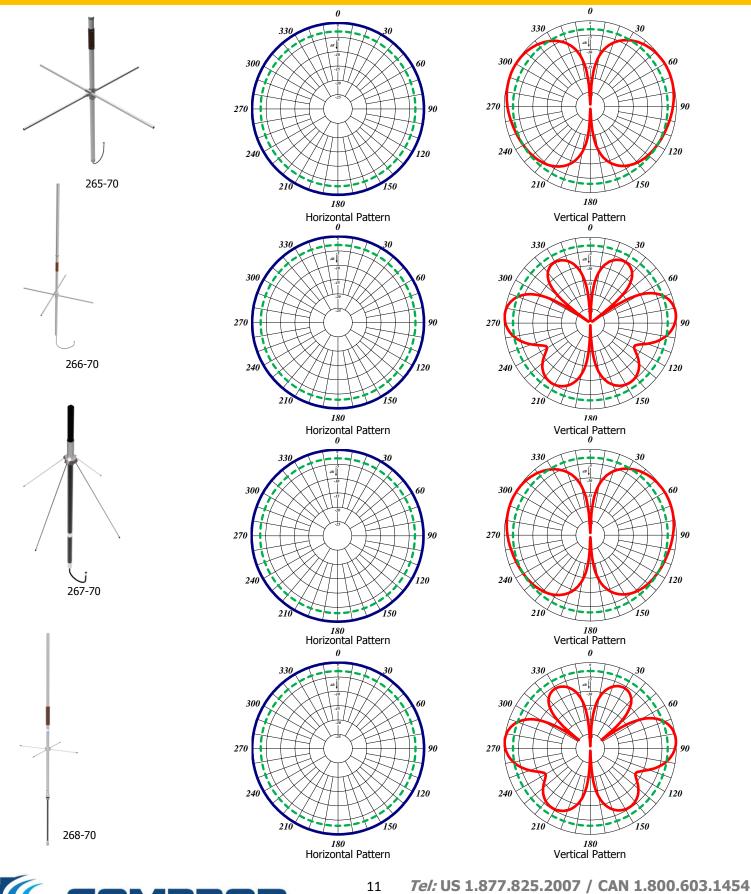
* See appendix for ordering information of different frequency splits (page 219) *



Simplifying RF Solutions

GROUND PLANE ANTENNA

118-470 MHz



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OMNIDIRECTIONAL ANTENNA SERIES

Omnidirectional Antenna Series

The Omnidirectional Antenna Series are available in VHF, UHF and 700/800/900 MHz configurations. These omnidirectional antennas are wide-band and unity gain. They are constructed from high strength, corrosion resistant aluminum alloy and stainless steel. All our antennas can be completely customized to your particular applications.

- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- The mounting hardware supplied will permit 0.75" to 2.3/8" O.D. pipe installation.
- DC ground for lightning protection.
- Because of the very large bandwidth, these are ideal antennas to stock, whether for emergency use or for resale.

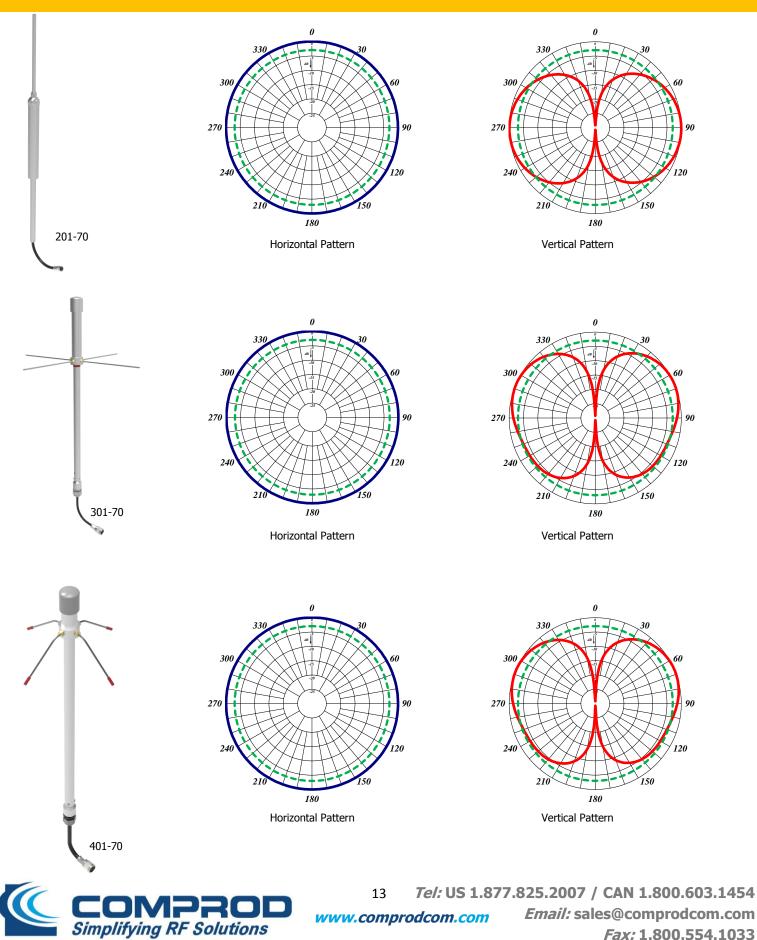
Electrical Specifications	201-70	301-70	401-70
Frequency Range, MHz (in splits)	25-174 MHz	406-512	746-960
Nominal Gain	Unity	Unity	Unity
Bandwidth 1.5:1 VSWR, MHz	2%	20	10%
Polarization	Vertical	Vertical	Vertical
Vertical Beam width (Ver. Pol.)	78º	75°	75°
Pattern	Omni	Omni	Omni
Power Rating, Watts	500	100	100
Nominal Impedance, Ohms	50	50	50
ightning Protection	Star Gap	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
lechanical Specifications	201-70	301-70	401-70
ax. Length, in (mm)	229 (5817)	24 (610)	21 (533)
kirt Diameter, in (mm)	2.625 (67)	N/A	N/A
hip Diameter, in (mm)	0.75 (19)	N/A	N/A
eight, lbs. (kg)	17 (7.7)	1.4 (0.7)	1 (0.45)
ated Wind Velocity, no ice, mph (km/h)	115 (185)	150 (241)	150 (241)
ated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	N/A	100 (161)	100 (161)
ateral Thrust @ 100 mph, ft.*lb (kg*m)	67 (30.4)	3.9 (1.8)	3.4 (1.6)
ending Moment @top clamp: 100 mph, ft.*lb (kg*m)	308 (42.6)	1.84 (0.25)	1.87 (0.26)
rojected Area, ft ² (m ²)	2.5 (0.23)	0.15 (0.014)	0.13 (0.019)
lounting Information Mast O.D. (mm) or Hardware ncluded	1.7" (42) O.D.	167-85 Clamp Included	167-85 Clamp Included
ided e appendix for ordering information of different free			Included

* See appendix for ordering information of different frequency splits (page 219) *



OMNIDIRECTIONAL ANTENNA SERIES

25-960 MHz



OMNIDIRECTIONAL ANTENNA SERIES

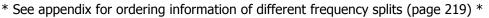
Collinear Omnidirectional Antenna

The 928-70 Collinear Omni Antenna is available in three frequency splits: 746-806; 806-869 or 885-960 within the 746 to 960 MHz range.

The antennas have an 8.5 dBd gain, and offer 6 fixed Electrical Downtilt options, based on customer requirements.

The antenna is constructed with a high-quality fiberglass light-grey radome. The aluminum mounting hardware is included with the antenna.

Electrical Specifications	928-70
Frequency Range, MHz (in splits)	746-806; 806-869; 885-960
Nominal Gain, dBd	8.5
Bandwidth 1.4:1 VSWR, MHz	75
Polarization	Vertical
Horizontal Beamwidth (°)	360
Vertical Beamwidth (°)	6.5
Electrical Downtilt—Fixed (Options) (°)	0, 1, 2, 3, 4, 5, 6
Pattern	Omnidirectional
3rd Order Intermodulation @ 2 X 43 dBm, dBc	< -150
Power Rating, Watts	500
Nominal Impedance, Ohms	50
Lightning Protection	DC Ground
Standard Termination	7/16 DIN-Female
Mechanical Specifications	928-70
Max. Length, in (mm)	130 (3310)
Diameter, in (mm)	2 (52)
Weight, lbs. (kg) - with mounting kit	26 (11.8)
Rated Wind Velocity, mph (km/h)	124 (200)
Radome Material	Fiberglass, light grey, RAL 7035
Radiating Element Material	Brass
Operational Temperature, °C	-55 to 70
Mounting Hardware Included	Pole mount included (U-bolts not included)



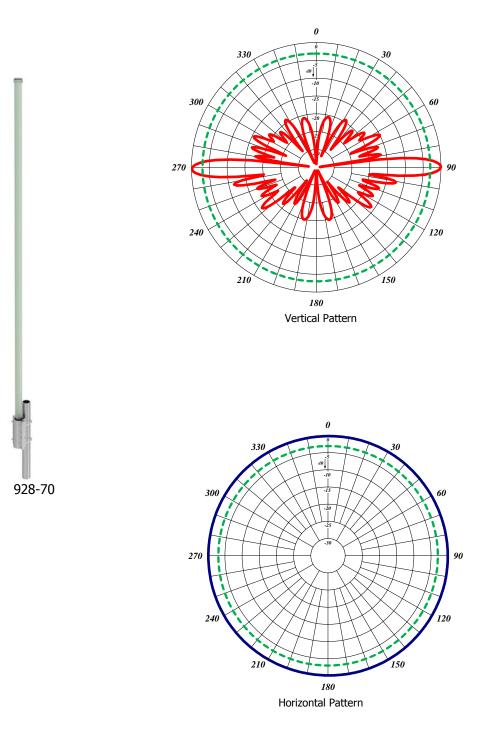


928-70



OMNIDIRECTIONAL ANTENNA SERIES

746-960 MHz





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LOW BAND EXPOSED DIPOLE ANTENNA

530 Series Low Band Exposed Dipole Antenna

The Low Band Exposed Dipole Antenna Series are available in our standard or heavy-duty construction. These exposed dipole antennas come in both single and dual configurations, depending on the gain required. They are constructed from high strength, corrosion resistant aluminum alloy, hot galvanized steel mounting hardware, and use unique PVC off-set support arms. Our heavy-duty versions have dual support braces and use a superior anti-torque support. All components are oversized.

- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- Supplied with anti-torque supports.
- DC ground for lightning protection.
- Can be black anodized coating for enhanced anti-corrosion and de-icing properties

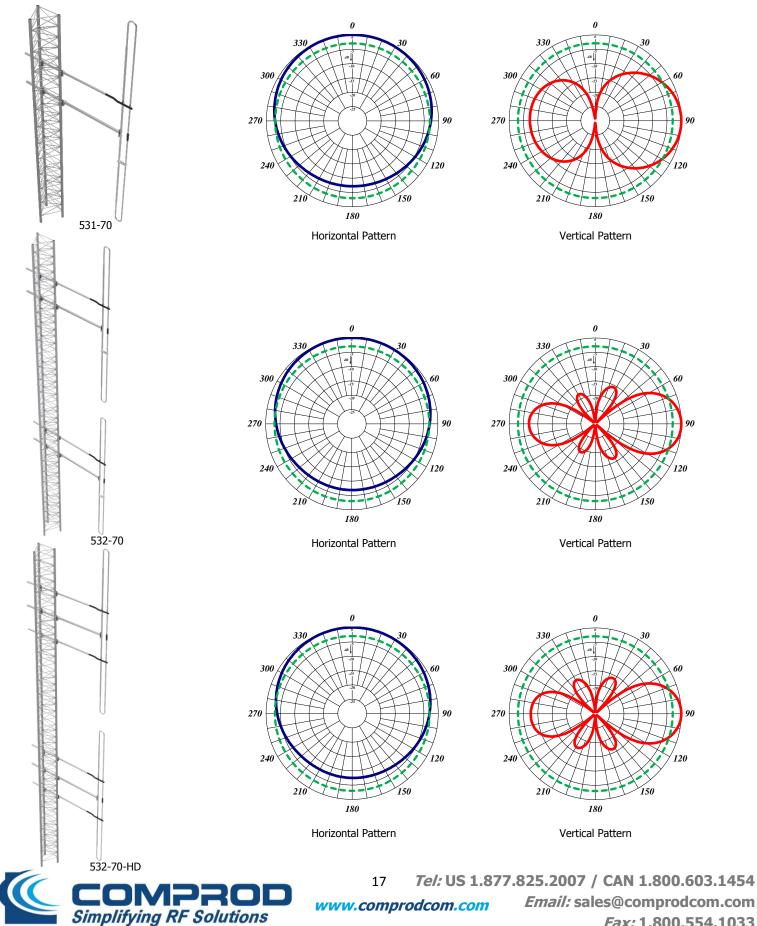
Electrical Specifications	531-70	531-70-HD	532-70	532-70-HD
Frequency Range, MHz (in splits)	30-76	30-76	30-76	30-76
Nominal Gain, dBd	2.5	2.5	5.5	5.5
Bandwidth 1.5:1 VSWR, MHz	7%	7%	7%	7%
Polarization	Vertical	Vertical	Vertical	Vertical
attern	Offset	Offset	Offset	Offset
ower Rating, Watts	300	300	300	300
lominal Impedance, Ohms	50	50	50	50
ightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
tandard Termination	Type N Male	Type N Male	Type N Male	Type N Male
lechanical Specifications	531-70	531-70-HD	532-70	532-70-HD
ength @ 30 MHz, in (mm)	189 (4800)	189 (4800)	472 (11989)	472 (11989)
idth, in (mm)	87 (2210)	87 (2210)	87 (2210)	87 (2210)
eight, lbs. (kg)	37 (17)	43 (19.5)	79 (36)	91 (41)
ated Wind Velocity, No Ice, mph <m h)<="" td=""><td>143 (230)</td><td>200 (322)</td><td>143 (230)</td><td>200 (322)</td></m>	143 (230)	200 (322)	143 (230)	200 (322)
ated Wind Velocity, 0.5" (13mm) ice, nph (km/h)	98 (158)	160 (258)	98 (158)	160 (258)
ateral Thrust @ 100 mph, wind, lbs. kg)	133 (60.8)	160 (72.3)	266 (121.6)	320 (144.6)
rojected Area, ft ² (m ²)	4.98 (0.46)	5.94 (0.55)	9.96 (0.92)	11.88 (1.10)
lounting Information Mast O.D., mm number of clamps needed)	1.25"-2.38" (4)	1.25"-2.38" (6)	1.25"-2.38" (8)	1.25"-2.38" (12)

* See appendix for ordering information of different frequency splits (page 219) *



LOW BAND EXPOSED DIPOLE ANTENNA

30-76 MHz



Fax: 1.800.554.1033

FM EXPOSED DIPOLES

870 FM Series Exposed Dipole

The 870 FM Series Exposed Dipoles are available in 1, 2, 4 dipole configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable, or fixed, side or top mount, and heavy-duty versions are available.

- Each antenna is offered in a 1/4 or 3/8 wave spacing versions.
- The 87XA-70 has external cabling and a field-adjustable pattern.
- The 87XF-70 has internal cabling and fixed dipole-mast spacing.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

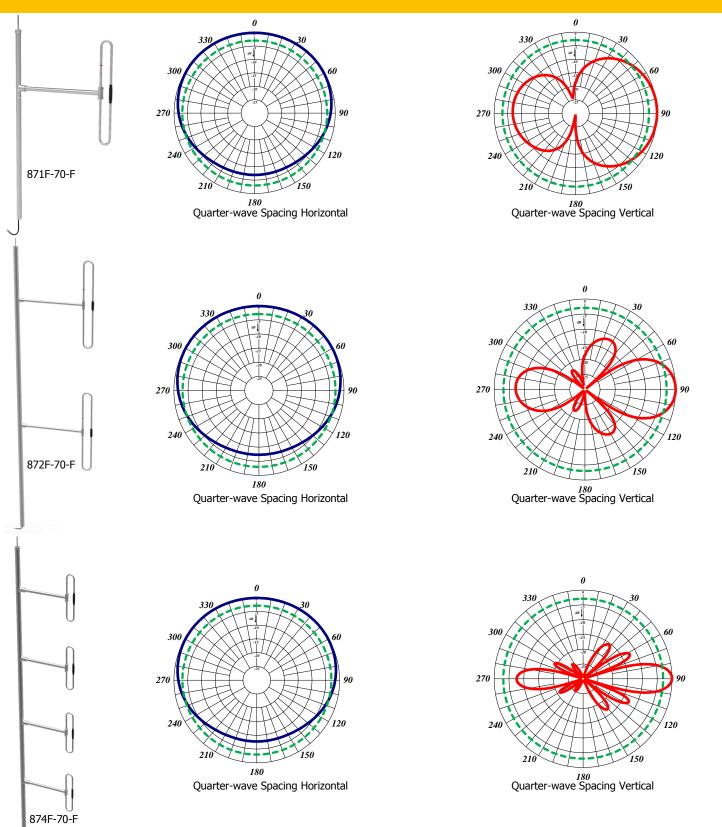
871F-70-F	872F-70-F	874F-70-F
88-108	88-108	88-108
2.0-2.5	5.0-5.5	8.0-8.5
1	2	4
20	20	20
Vertical	Vertical	Vertical
Offset	Offset	Offset
200	450	450
50	50	50
DC Ground	DC Ground	DC Ground
Type N Male	Type N Male	Type N Male
871F-70-F	872F-70-F	874F-70-F
871F-70-F 114 (2896)	872F-70-F 198 (5029)	874F-70-F 350 (8890)
114 (2896)	198 (5029)	350 (8890)
114 (2896) 47 (1194)	198 (5029) 47 (1194)	350 (8890) 49 (1245)
114 (2896) 47 (1194) 19.1 (8.7)	198 (5029) 47 (1194) 37 (16.8)	350 (8890) 49 (1245) 137 (62)
114 (2896) 47 (1194) 19.1 (8.7) 150 (241)	198 (5029) 47 (1194) 37 (16.8) 128 (206)	350 (8890) 49 (1245) 137 (62) 105 (169)
114 (2896) 47 (1194) 19.1 (8.7) 150 (241) 118 (190)	198 (5029) 47 (1194) 37 (16.8) 128 (206) 100 (161)	350 (8890) 49 (1245) 137 (62) 105 (169) 84 (135)
114 (2896) 47 (1194) 19.1 (8.7) 150 (241) 118 (190) 75 (34)	198 (5029) 47 (1194) 37 (16.8) 128 (206) 100 (161) 139 (63)	350 (8890) 49 (1245) 137 (62) 105 (169) 84 (135) 332 (151)
114 (2896) 47 (1194) 19.1 (8.7) 150 (241) 118 (190) 75 (34) 60 (8.2)	198 (5029) 47 (1194) 37 (16.8) 128 (206) 100 (161) 139 (63) 596 (82)	350 (8890) 49 (1245) 137 (62) 105 (169) 84 (135) 332 (151) 3565 (493)
	88-108 2.0-2.5 1 20 Vertical Offset 200 50 DC Ground Type N	2.0-2.5 5.0-5.5 1 2 20 20 Vertical Vertical Offset Offset 200 450 50 50 DC Ground DC Ground Type N Type N





FM EXPOSED DIPOLES

88-108 MHz





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VHF EXPOSED DIPOLES (Aviation)

870 Series VHF Exposed Dipole

The 870 Series A – Aviation Series VHF Exposed Dipoles are available in 1, 2, 4, 8 and dual dipole configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable or fixed, side mount or top mount, and heavy-duty versions are available.

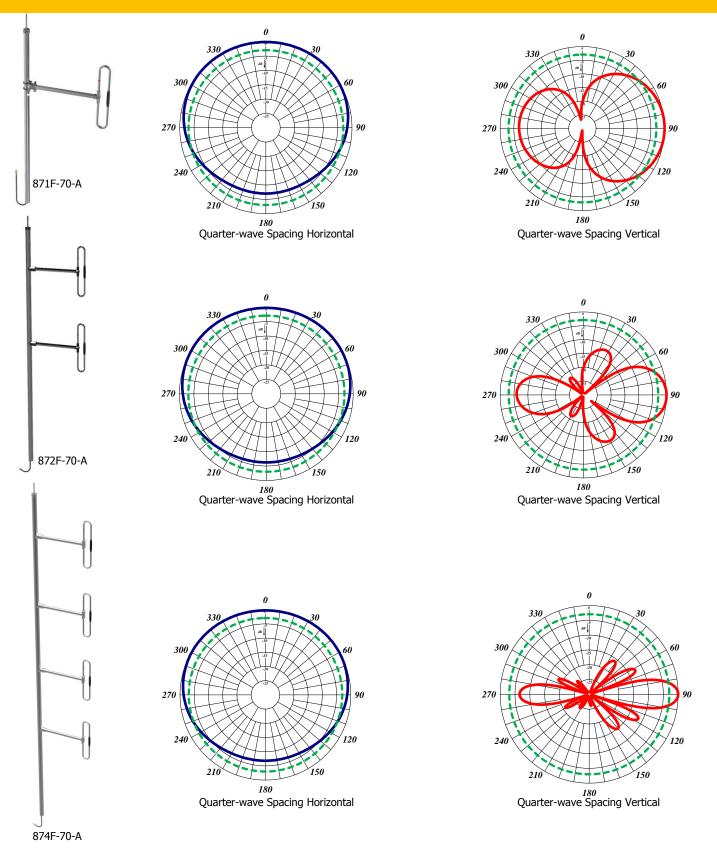
- Each antenna is offered in a 1/4 or 3/8 wave spacing versions.
- The 87XA-70 has external cabling and a field-adjustable pattern.
- The 87XF-70 has internal cabling and fixed dipole-mast spacing.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	871F-70-A	872F-70-A	874F-70-A
Frequency Range, MHz	118-138	118-138	118-138
Nominal Gain, dBd	2.0-2.5	5.0-5.5	8.0-8.5
Number of Dipoles	1	2	4
Bandwidth 1.5:1 VSWR, MHz	20	20	20
Polarization	Vertical	Vertical	Vertical
Pattern	Offset	Offset	Offset
Power Rating, Watts	200	450	450
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N	Type N	Type N
	Male	Male	Male
Mechanical Specifications	Male 871F-70-A		Male 874F-70-A
	871F-70-A	872F-70-A	874F-70-A
Length, in (mm) Width (3/8 Wave Spacing), in (mm)	871F-70-A 78 (1981)	872F-70-A 162 (4115)	874F-70-A 294 (7468)
Length, in (mm) Width (3/8 Wave Spacing), in (mm)	871F-70-A 78 (1981) 54 (1372)	872F-70-A 162 (4115) 54 (1372)	874F-70-A 294 (7468) 55 (1397)
Length, in (mm) Width (3/8 Wave Spacing), in (mm) Weight, lbs. (kg)	871F-70-A 78 (1981) 54 (1372) 16 (7.3)	872F-70-A 162 (4115) 54 (1372) 31 (14.1)	874F-70-A 294 (7468) 55 (1397) 93 (42)
Length, in (mm) Width (3/8 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	871F-70-A 78 (1981) 54 (1372) 16 (7.3) 150 (241)	872F-70-A 162 (4115) 54 (1372) 31 (14.1) 145 (3341)	874F-70-A 294 (7468) 55 (1397) 93 (42) 120 (193)
Length, in (mm) Width (3/8 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	871F-70-A 78 (1981) 54 (1372) 16 (7.3) 150 (241) 105 (169)	872F-70-A 162 (4115) 54 (1372) 31 (14.1) 145 (3341) 100 (161)	874F-70-A 294 (7468) 55 (1397) 93 (42) 120 (193) 95 (153)
Length, in (mm) Width (3/8 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg) Bending Moment @ top clamp: 100 mph, ft.*lb	871F-70-A 78 (1981) 54 (1372) 16 (7.3) 150 (241) 105 (169) 57 (26)	872F-70-A 162 (4115) 54 (1372) 31 (14.1) 145 (3341) 100 (161) 120 (54.5)	874F-70-A 294 (7468) 55 (1397) 93 (42) 120 (193) 95 (153) 231 (105)



VHF EXPOSED DIPOLES (Aviation)

118-138 MHz





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VHF EXPOSED DIPOLES

870 Series VHF Exposed Dipoles

The 870 Series VHF Exposed Dipoles are available in 1, 2, 4, 8, dipole and dual dipole configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable or fixed, side mount or top mount, and heavy-duty versions are available.

- Each antenna is offered in a 1/4, 3/8, or 1/2 wave spacing versions.
- The 87XA-70 has external cabling and a field-adjustable pattern.
- The 87XF-70 has internal cabling and fixed dipole-mast spacing.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

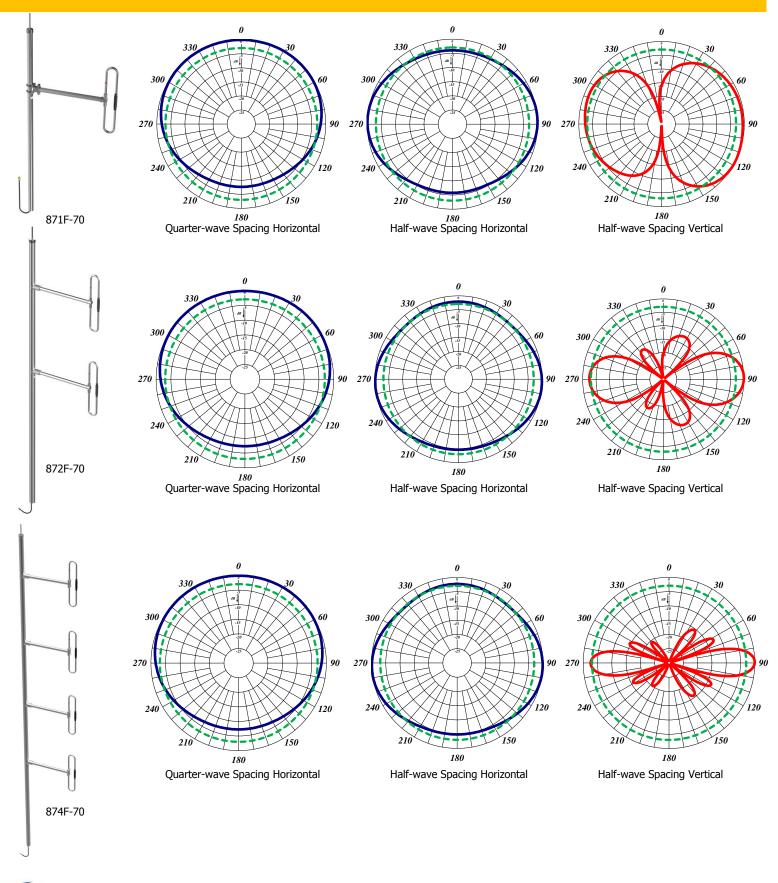
Electrical Specifications	871F-70	872F-70	874F-70
Frequency Range, MHz	138-174	138-174	138-174
Nominal Gain, dBd	2.0-2.5	5.0-5.5	8.0-8.5
Number of Dipoles	1	2	4
Bandwidth 1.5:1 VSWR, MHz	36	36	36
Polarization	Vertical	Vertical	Vertical
Pattern	Offset / bi	Offset / bi	Offset / bi
Power Rating, Watts	200	450	450
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	871F-70	872F-70	874F-70
Length, in (mm)	78 (1981)	162 (3200)	246 (6248)
Width (1/2 Wave Spacing), in (mm)			
	40 (1016)	40 (1016)	40 (1016)
Weight, lbs. (kg)	40 (1016) 13 (6)	40 (1016) 24 (10.8)	40 (1016) 67 (30)
Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)		. ,	. ,
	13 (6)	24 (10.8)	67 (30)
Rated Wind Velocity, No Ice, mph (km/h)	13 (6) 170 (274)	24 (10.8) 150 (241)	67 (30) 110 (177)
Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	13 (6) 170 (274) 145 (233)	24 (10.8) 150 (241) 135 (217)	67 (30) 110 (177) 85 (137)
Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (N)Bending Moment @ top clamp: 100 mph, ft.*lb	13 (6) 170 (274) 145 (233) 45 (199)	24 (10.8) 150 (241) 135 (217) 92 (407)	67 (30) 110 (177) 85 (137) 206 (914)
Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (N)Bending Moment @ top clamp: 100 mph, ft.*lb(N*m)	13 (6) 170 (274) 145 (233) 45 (199) 18 (24)	24 (10.8) 150 (241) 135 (217) 92 (407) 205 (278)	67 (30) 110 (177) 85 (137) 206 (914) 1440 (1953)



I.

VHF EXPOSED DIPOLES

138-174 MHz





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VHF EXPOSED DIPOLES

870 LM Series VHF Exposed Dipoles – Without Mast

The 870 LM Series VHF Exposed Dipoles are available in 1, 2, 4, 8, dipole configurations. The LM stands for "Less Mast". The product includes the dipole, boom and clamps to mount the dipoles but no mast is supplied. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable-only, side mount or top mount, and heavy-duty versions are available.

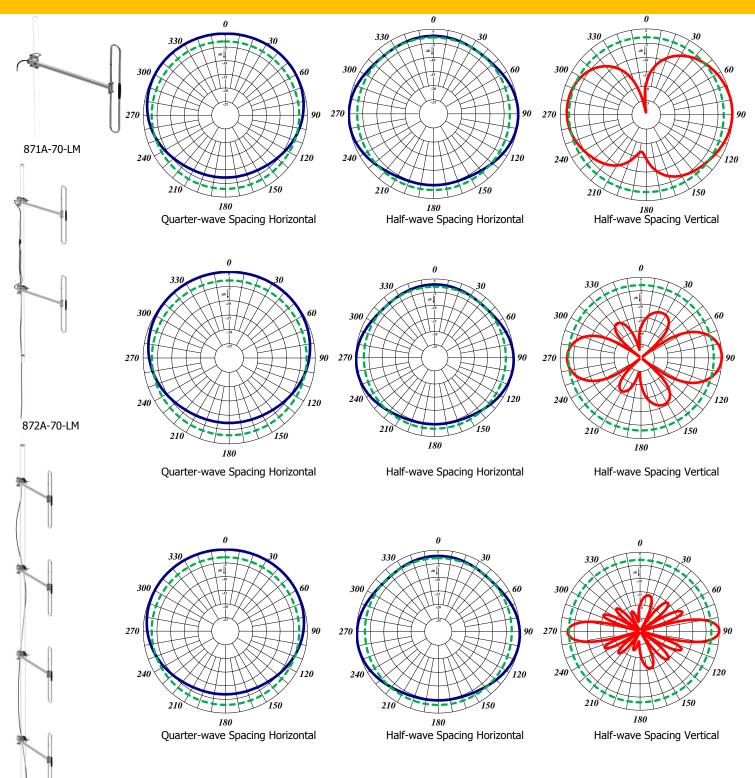
- Each antenna is offered in a 1/4, 3/8 or 1/2 wave spacing versions.
- The 870 LM series has external cabling and is field adjustable pattern
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	871A-70-LM	872A-70-LM	874A-70-LM
Frequency Range, MHz	138-174	138-174	138-174
Nominal Gain, dBd	2.0-2.5	5.0-5.5	8.0-8.5
Number of Dipoles	1	2	4
Bandwidth 1.5:1 VSWR, MHz	36	36	36
Polarization	Vertical	Vertical	Vertical
Pattern	Offset / bi	Offset / bi	Offset / bi
Power Rating, Watts	200	450	500
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	871A-70-LM	872A-70-LM	874A-70-LM
Length, in (mm)	Mast Not Included	Mast Not Included	Mast Not Included
Width (1/2 Wave Spacing), in (mm)	Included	Included	Included
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg)	Included 40 (1016)	Included 40 (1016)	Included 40 (1016)
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	Included 40 (1016) 4.5 (2.0)	Included 40 (1016) 19 (8.6)	Included 40 (1016) 38 (17.2)
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	Included 40 (1016) 4.5 (2.0) 150 (241)	Included 40 (1016) 19 (8.6) 150 (241)	Included 40 (1016) 38 (17.2) 150 (241)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5″ (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg) Projected Area, ft ² (m ²)	Included 40 (1016) 4.5 (2.0) 150 (241) 135 (217)	Included 40 (1016) 19 (8.6) 150 (241) 135 (217)	Included 40 (1016) 38 (17.2) 150 (241) 135 (217)
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg)	Included 40 (1016) 4.5 (2.0) 150 (241) 135 (217) 20 (9.1)	Included 40 (1016) 19 (8.6) 150 (241) 135 (217) 40 (18.2)	Included 40 (1016) 38 (17.2) 150 (241) 135 (217) 80 (36.5)



VHF EXPOSED DIPOLES

138-174 MHz



874A-70-LM



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VHF EXPOSED DIPOLES

830 Series Light Duty VHF Dipoles

The 830 Series Light Duty VHF Exposed Dipoles are available in 2 and 4 dipole configurations. All our antennas can be completely customized to your applications.

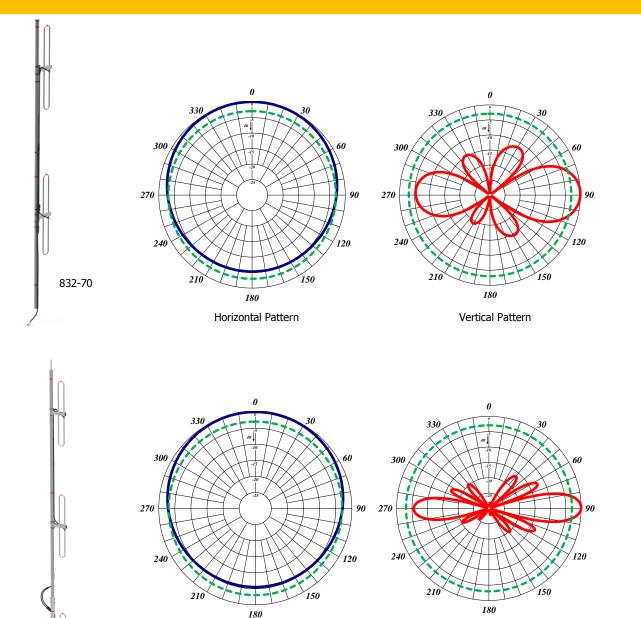
- Low VSWR version with maximum gain over specified frequency.
- The 830 series has external cabling and fixed dipole-mast spacing.
- These antennas have an adjustable pattern for omnidirectional or offset coverage.
- The 834-70 antenna is shipped in two sections to be assembled on site.

Electrical Specifications	832-70	834-70
Frequency Range, MHz (in splits)	148-174	148-174
Nominal Gain, dBd	3.0/6.0	6.0/9.0
Number of Dipoles	2	4
Bandwidth 2.0:1 VSWR, MHz	14	14
Polarization	Vertical	Vertical
Pattern	Offset	Offset
Power Rating, Watts	500	500
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male
Mechanical Specifications	832-70	834-70
Length, in (mm)	120 (3048)	244 (6198)
Width (1/2 Wave Spacing), in (mm)	9 (229)	9 (229)
	9 (229) 12 (5.5)	9 (229) 29 (13)
Width (1/2 Wave Spacing), in (mm)	. ,	· · /
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg)	12 (5.5)	29 (13)
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	12 (5.5) 125 (201)	29 (13) 90 (145)
Width (1/2 Wave Spacing), in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	12 (5.5) 125 (201) 90 (145)	29 (13) 90 (145) 65 (105)
Width (1/2 Wave Spacing), in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (kg)	12 (5.5) 125 (201) 90 (145) 45 (200)	29 (13) 90 (145) 65 (105) 69 (307)
Width (1/2 Wave Spacing), in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (kg)Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	12 (5.5) 125 (201) 90 (145) 45 (200) 150 (203)	29 (13) 90 (145) 65 (105) 69 (307) 787 (1067)
Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg) Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m) Projected Area, ft ² (m ²)	12 (5.5) 125 (201) 90 (145) 45 (200) 150 (203) 1.7 (0.16) 107R-85 Clamp	29 (13) 90 (145) 65 (105) 69 (307) 787 (1067) 4.2 (0.39) 107-85 Clamp





VHF EXPOSED DIPOLES



Horizontal Pattern

834-70



Vertical Pattern

AVIATION EXPOSED DIPOLE ARRAY

880-70-A Series VHF Exposed Dipole Array

The 880A Series VHF Exposed Dipole Array are available in 2 and 4 dipoles set configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, top mount only, and heavy-duty versions are available.

- Each antenna is offered in two versions: Omni or bidirectional. (Image shows Omni)
- These antennas have only internal cabling, fixed dipole-mast spacing and adjustable pattern control.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	882-70-A	884-70-A
Frequency Range, MHz	118-138	118-138
Nominal Gain, dBd	3.0-5.5	6.0-8.5
Number of Dipoles	2 Sets	4 Sets
Bandwidth 1.5:1 VSWR, MHz	30	30
Polarization	Vertical	Vertical
Pattern	Omni or Bi-Dir.	Omni or Bi-Dir.
Power Rating, Watts	450	500
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male
Mechanical Specifications	882-70-A	884-70-A
Length, in (mm)	157 (3988)	306 (7772)
Width, in (mm)	45 (1143)	46 (1168)
Weight, lbs. (kg)	49 (8.6)	105 (47.6)
Rated Wind Velocity, No Ice, mph (km/h)	140 (225)	100 (162)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	110 (177)	80 (129)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	154 (70)	307 (139)
Lateral Thrust @ 100 mph, wind, lbs. (kg) Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	154 (70) 524 (72.5)	307 (139) 2039 (282)
Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	524 (72.5)	2039 (282)



882-70-A Bidirectional



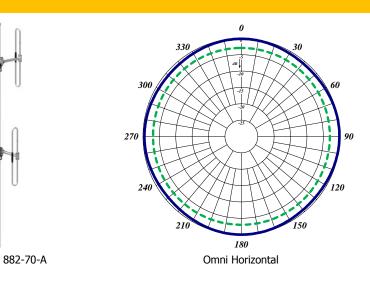
AVIATION EXPOSED DIPOLE ARRAY

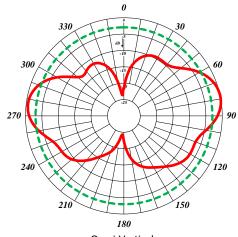
118-138 MHz

90

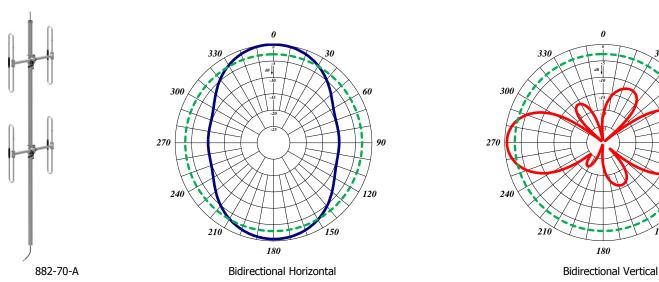
120

150





Omni Vertical





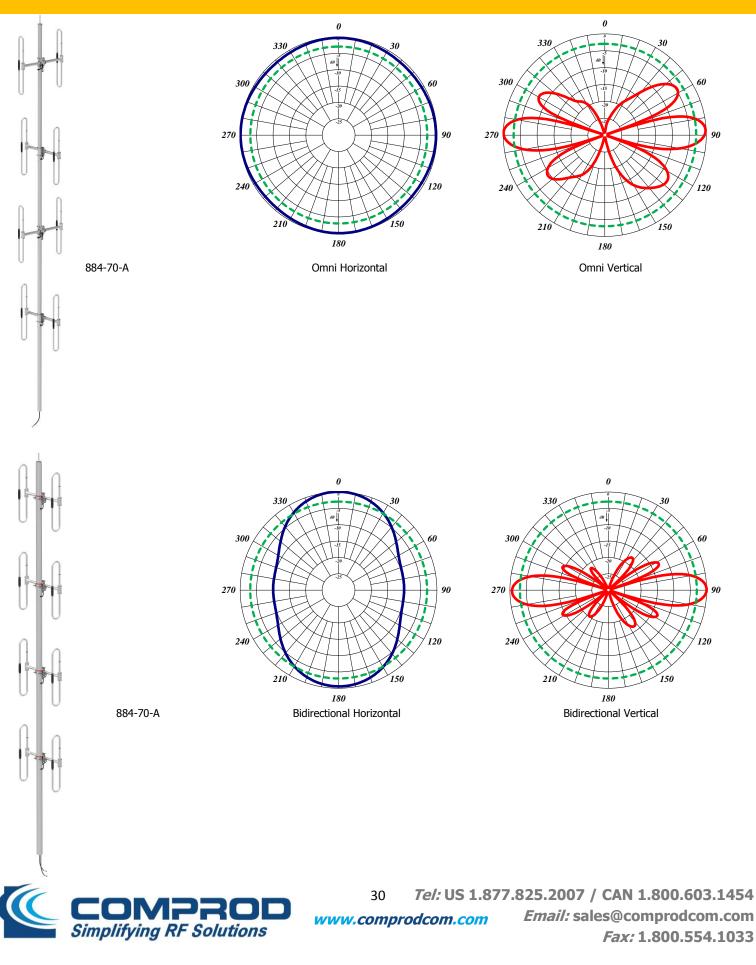
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AVIATION EXPOSED DIPOLE ARRAY

118-138 MHz



VHF EXPOSED DIPOLE ARRAY

880 Series VHF Exposed Dipole Array

The 880 Series VHF Exposed Dipole Array are available in 2 and 4 dipoles set configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, top mount only, and heavy-duty versions are available.

- Each antenna is offered in two versions: Omni or bidirectional.
- These antennas have only internal cabling, fixed dipole-mast spacing, and adjustable pattern control.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

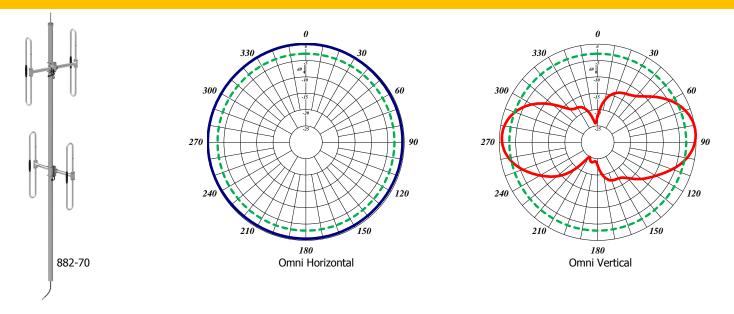
Electrical Specifications	882-70	884-70
Frequency Range, MHz	138-174	138-174
Nominal Gain, dBd	3.0-5.5	6.0-8.5
Number of Dipoles	2 Sets	4 Sets
Bandwidth 1.5:1 VSWR, MHz	36	36
Polarization	Vertical	Vertical
Pattern	Omni or Bi-Dir.	Omni or Bi-Dir.
Power Rating, Watts	450	500
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male
Mechanical Specifications	882-70	884-70
		246 (6240)
Length, in (mm)	138 (3500)	246 (6248)
Length, in (mm) Width, in (mm)	138 (3500) 30 (762)	246 (6248) 31 (787)
	. ,	
Width, in (mm)	30 (762)	31 (787)
Width, in (mm) Weight, lbs. (kg)	30 (762) 36 (16.3)	31 (787) 78 (35)
Width, in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	30 (762) 36 (16.3) 120 (162)	31 (787) 78 (35) 110 (177)
Width, in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	30 (762) 36 (16.3) 120 (162) 95 (137)	31 (787) 78 (35) 110 (177) 80 (129)
Width, in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (kg)	30 (762) 36 (16.3) 120 (162) 95 (137) 113 (51)	31 (787) 78 (35) 110 (177) 80 (129) 236 (107)
Width, in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg) Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	30 (762) 36 (16.3) 120 (162) 95 (137) 113 (51) 351(49)	31 (787) 78 (35) 110 (177) 80 (129) 236 (107) 1264 (175)

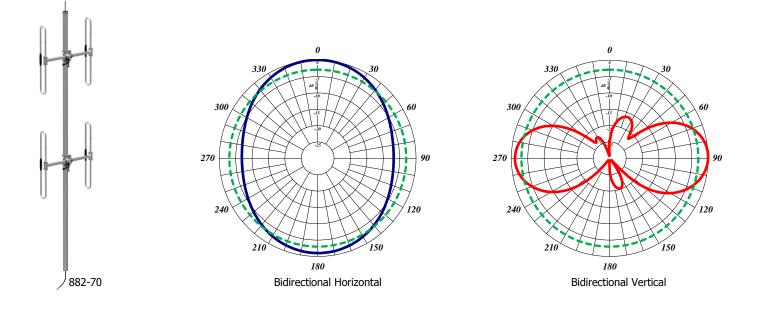




VHF EXPOSED DIPOLE ARRAY

138-174 MHz



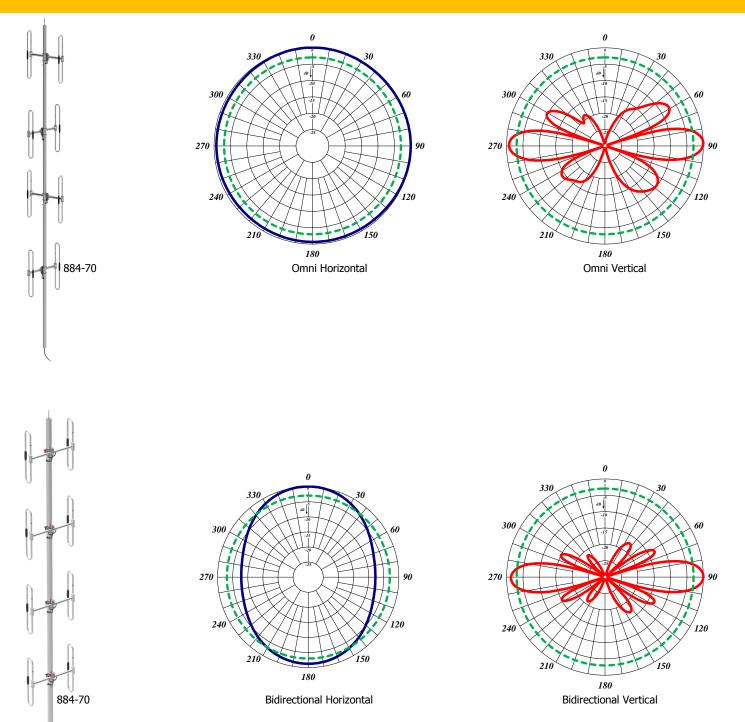




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VHF EXPOSED DIPOLE ARRAY

138-174 MHz





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220MHz EXPOSED DIPOLES

870 Series 220MHz Exposed Dipoles

The 870 Series 220MHz Exposed Dipoles are available in 1, 2, 4, 8 dipole configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable, or fixed, side mount or top mount, and heavy-duty versions are available.

- Each antenna is offered in a 1/4, 3/8 or 1/2 wave spacing versions.
- The 87XA-70 has external cabling and a field-adjustable pattern.
- The 87XF-70 has internal cabling and fixed dipole-mast spacing.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

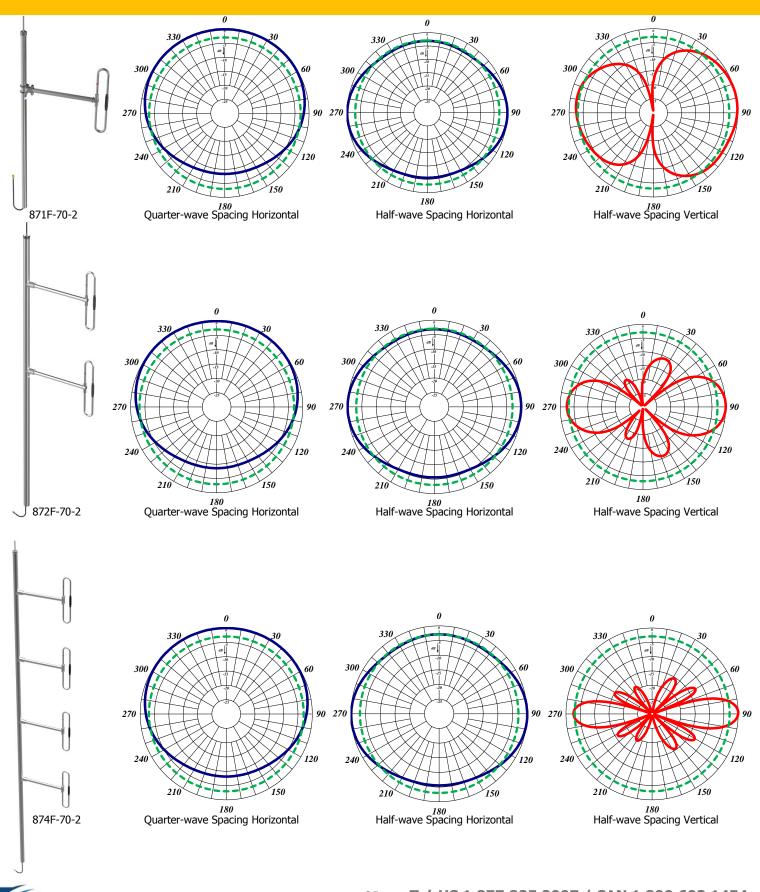
871F-70-2	872F-70-2	874F-70-2
215-225	215-225	215-225
2.0-2.5	5.0-5.5	8.0-8.5
1	2	4
10	10	10
Vertical	Vertical	Vertical
Offset / bi	Offset / bi	Offset / bi
200	300	500
50	50	50
DC Ground	DC Ground	DC Ground
Type N Male	Type N Male	Type N Male
871F-70-2	872F-70-2	874F-70-2
871F-70-2 66 (1676)	872F-70-2 112 (2845)	874F-70-2 200 (5080)
66 (1676)	112 (2845)	200 (5080)
66 (1676) 31 (787)	112 (2845) 31 (787)	200 (5080) 32 (813)
66 (1676) 31 (787) 12.5 (5.7)	112 (2845) 31 (787) 21 (9.5)	200 (5080) 32 (813) 51 (23)
66 (1676) 31 (787) 12.5 (5.7) 165 (266)	112 (2845) 31 (787) 21 (9.5) 150 (241)	200 (5080) 32 (813) 51 (23) 145 (233)
66 (1676) 31 (787) 12.5 (5.7) 165 (266) 140 (225)	112 (2845) 31 (787) 21 (9.5) 150 (241) 130 (209)	200 (5080) 32 (813) 51 (23) 145 (233) 105 (177)
66 (1676) 31 (787) 12.5 (5.7) 165 (266) 140 (225) 40 (18)	112 (2845) 31 (787) 21 (9.5) 150 (241) 130 (209) 66 (30)	200 (5080) 32 (813) 51 (23) 145 (233) 105 (177) 143 (65)
66 (1676) 31 (787) 12.5 (5.7) 165 (266) 140 (225) 40 (18) 58 (8)	112 (2845) 31 (787) 21 (9.5) 150 (241) 130 (209) 66 (30) 150 (21)	200 (5080) 32 (813) 51 (23) 145 (233) 105 (177) 143 (65) 610 (84)
	215-225 2.0-2.5 1 10 Vertical Offset / bi 200 50 DC Ground Type N	215-225 215-225 2.0-2.5 5.0-5.5 1 2 10 10 Vertical Vertical Offset / bi Offset / bi 200 300 50 50 DC Ground DC Ground Type N Type N





220MHz EXPOSED DIPOLES

215-225 MHz



Simplifying RF Solutions 35 Tel: US 1.877.825.2

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UHF EXPOSED DIPOLES

770 Series UHF Exposed Dipoles

The 770 Series UHF Exposed Dipoles are available in 1, 2, 4, 8 and dual dipole configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, adjustable or fixed, side mount or top mount, and heavy-duty versions are available.

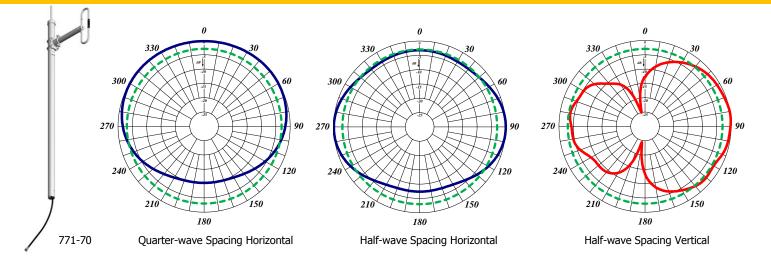
- Each antenna is offered in a 1/4, 3/8, or 1/2 wave versions.
- The 77X-70 has internal cabling and fixed dipole-mast spacing.
- Heavy-duty Versions are available. Please contact our Technical Support team for consultation.

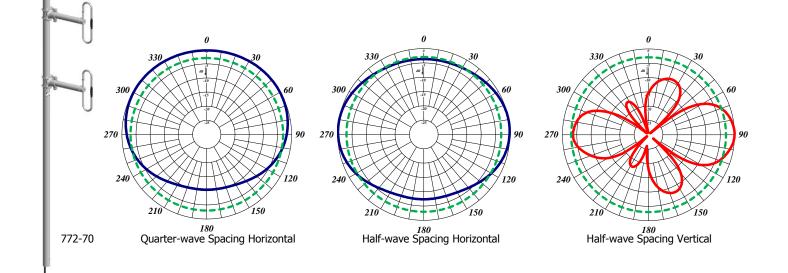
Electrical Specifications	771-70	772-70	774-70	778-70
Frequency Range, MHz (in splits)	406-512	406-512	406-512	406-512
Nominal Gain, dBd	2.0-2.5	5.0-5.5	8.0-8.5	11.0-11.5
Number of Dipoles	1	2	4	8
Bandwidth 1.5:1 VSWR, MHz	106	106	106	64
Polarization	Vertical	Vertical	Vertical	Vertical
Pattern	Offset / Bi	Offset / Bi	Offset / Bi	Offset / Bi
Power Rating, Watts	75	150	300	300
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	771-70	772-70	774-70	778-70
Length, in (mm)	66 (1676)	86 (2184)	126 (3200)	210 (5334)
Width, in (mm)	16 (406)	16 (406)	16 (406)	17 (432)
Weight, lbs. (kg)	8.6 (3.9)	12.6 (5.7)	21 (9.5)	52 (23.6)
Rated Wind Velocity, No Ice, mph (km/h)	170 (274)	160 (257)	150 (241)	140 (225)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	145 (233)	135 (217)	120 (193)	105 (169)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	27 (12.3)	39 (17.8)	64 (29)	134 (61)
Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	33.5 (4.6)	72 910)	177 (24.5)	655 (91)
Projected Area, ft ² (m ²)	1 (0.09)	1.5 (0.14)	2.4 (0.23)	5.1 (0.472)
Mounting Information: Mast O.D. (mm)	1.9" (48)	1.9" (48)	1.9" (48)	2.4" (61)
* See appendix for ordering information (page 221)				



UHF EXPOSED DIPOLES

406-512 MHz





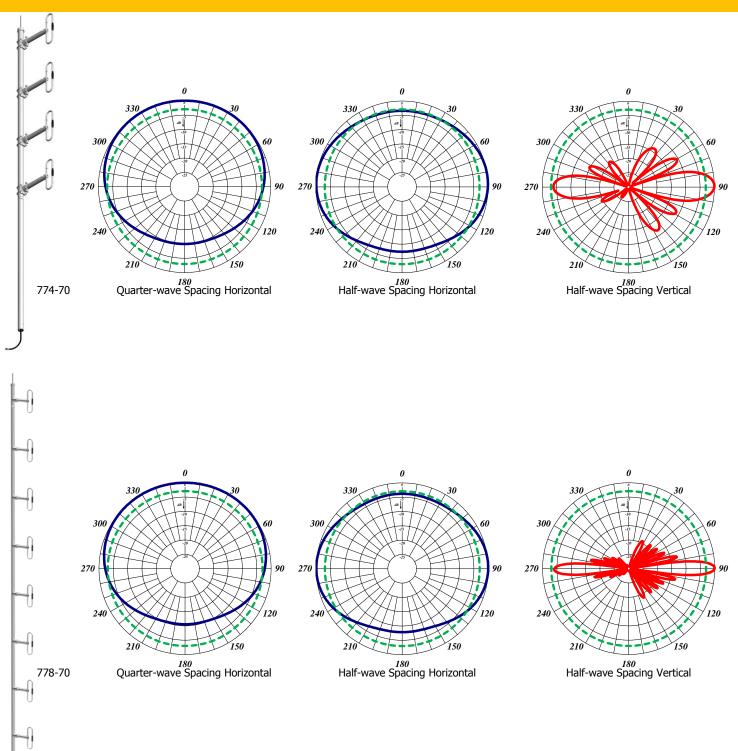


 37
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UHF EXPOSED DIPOLES





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UHF EXPOSED DIPOLES

780 Series UHF Exposed Dipole Array

The 780 Series UHF Exposed Dipole Arrays are available in 2 and 4 dipoles set configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, top or side mount configuration, and heavy-duty versions are available.

- Each antenna is offered in two versions: Omni or bidirectional.
- Antennas have complete internal cabling, fixed dipole-mast spacing, and adjustable pattern control.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

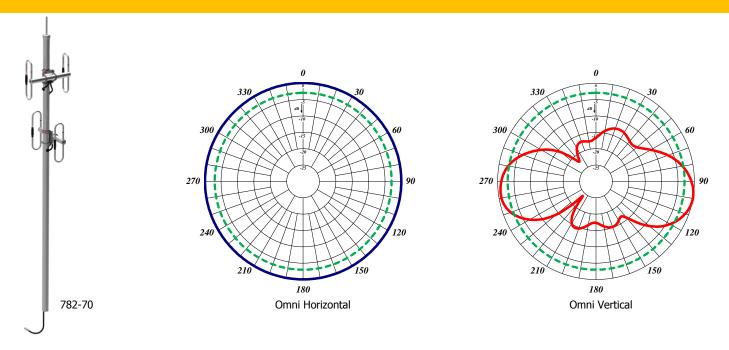
Electrical Specifications	782-70	784-70
Frequency Range, MHz	406-512	406-512
Nominal Gain, dBd	3.0-5.5	6.0-8.5
Number of Dipoles	2 Sets	4 Sets
Bandwidth 1.5:1 VSWR, MHz	64	64
Polarization	Vertical	Vertical
Pattern	Omni or Bi-Dir.	Omni or Bi-Dir.
Power Rating, Watts	300	300
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N	Type N
	Male	Male
Mechanical Specifications		
	Male	Male
Mechanical Specifications	Male 782-70	Male 784-70
Mechanical Specifications Length, in (mm)	Male 782-70 90 (2286)	Male 784-70 126 (3200)
Mechanical Specifications Length, in (mm) Width, in (mm)	Male 782-70 90 (2286) 12.75 (324)	Male 784-70 126 (3200) 12.75 (324)
Mechanical Specifications Length, in (mm) Width, in (mm) Weight, lbs. (kg)	Male 782-70 90 (2286) 12.75 (324) 25 (11.3)	Male 784-70 126 (3200) 12.75 (324) 38 (17)
Mechanical Specifications Length, in (mm) Width, in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	Male 782-70 90 (2286) 12.75 (324) 25 (11.3) 145 (233)	Male 784-70 126 (3200) 12.75 (324) 38 (17) 130 (209)
Mechanical SpecificationsLength, in (mm)Width, in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	Male 782-70 90 (2286) 12.75 (324) 25 (11.3) 145 (233) 100 (161)	Male 784-70 126 (3200) 12.75 (324) 38 (17) 130 (209) 90 (145)
Mechanical SpecificationsLength, in (mm)Width, in (mm)Weight, lbs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (kg)	Male 782-70 90 (2286) 12.75 (324) 25 (11.3) 145 (233) 100 (161) 54 (24.5)	Male 784-70 126 (3200) 12.75 (324) 38 (17) 130 (209) 90 (145) 101 (46)
Mechanical SpecificationsLength, in (mm)Width, in (mm)Weight, ibs. (kg)Rated Wind Velocity, No Ice, mph (km/h)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)Lateral Thrust @ 100 mph, wind, lbs. (kg)Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	Male 782-70 90 (2286) 12.75 (324) 25 (11.3) 145 (233) 100 (161) 54 (24.5) 137 (19)	Male 784-70 126 (3200) 12.75 (324) 38 (17) 130 (209) 90 (145) 90 (145) 101 (46) 426 (59)

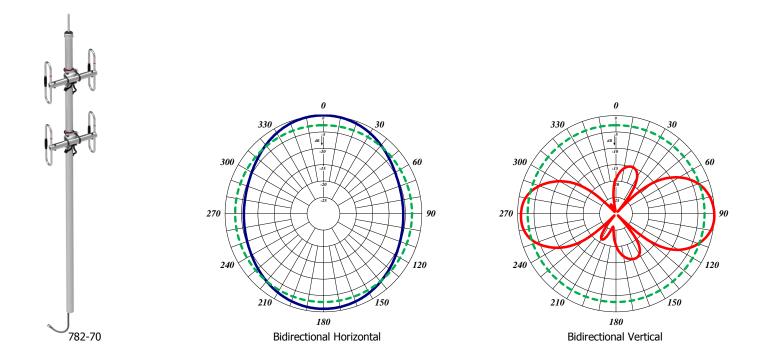




UHF EXPOSED DIPOLES

406-512 MHz



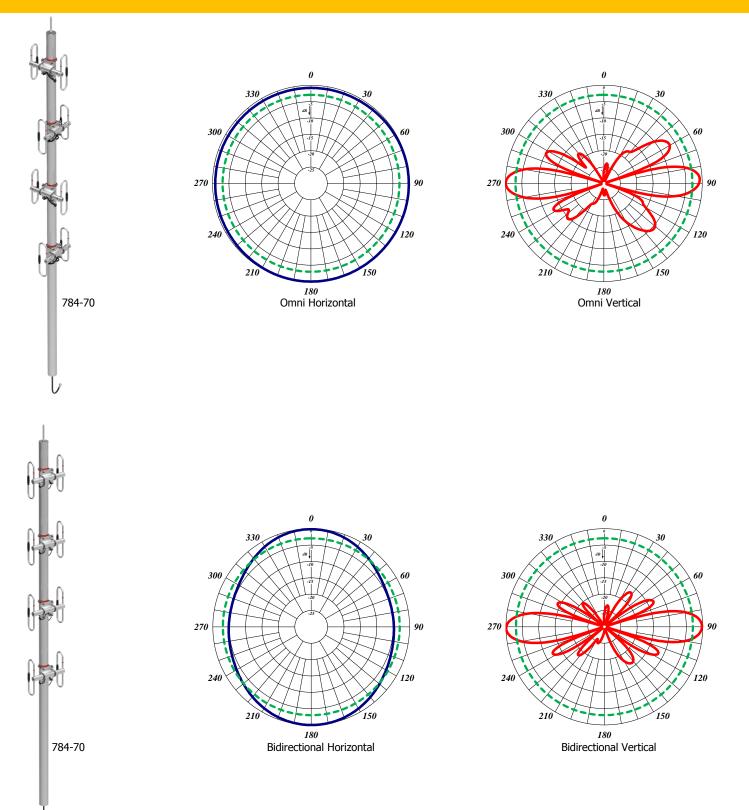




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UHF EXPOSED DIPOLES

406-512 MHz





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DUAL EXPOSED DIPOLE ARRAY

Dual Feed Exposed Dipole Array

The Dual Feed Exposed Dipole Arrays are available in many different configurations. Our VHF, UHF or 700/800/900 MHz antennas can be combined into one mast. These antennas can be mixed and matched with our 840, 870, 880, 770 and 790 series antennas. All our antennas can be completely customized to your particular applications. Our antennas can be configured for side mount or top mount.

- Low VSWR version with maximum gain over specified frequency.
- Ideal for applications where costs are calculated per antenna.
- Heavy-duty versions are available.
- Typical antenna to antenna isolation is 30dB, 40 dB of isolation is also available.

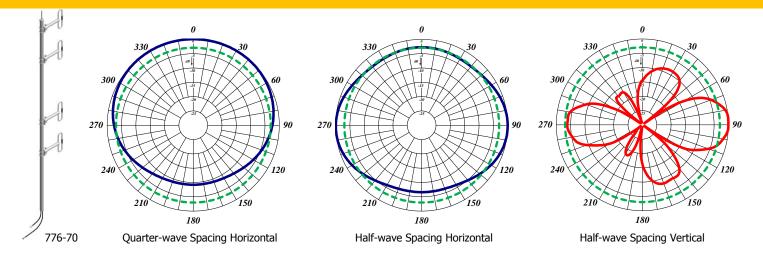
Electrical Specifications	776-70	876-70
Frequency Range, MHz (in splits)	406-512	138-174
Nominal Gain, dBd	5.0-5.5	5.0-5.5
Number of Dipoles	2 sets of 2	2 sets of 2
Bandwidth VSWR, MHz	1.5:1 (106)	1.5:1 (36)
Polarization	Vertical	Vertical
Pattern	Offset	Offset
Power Rating, Watts	300	300
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male
Mechanical Specifications	776-70	876-70
Mechanical Specifications Length, in (mm)	776-70 126 (3200)	876-70 246 (6248)
Length, in (mm)	126 (3200)	246 (6248)
Length, in (mm) Width (1/2 Wave Spacing), in (mm)	126 (3200) 16 (406)	246 (6248) 40 (1016)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg)	126 (3200) 16 (406) 19 (8.6)	246 (6248) 40 (1016) 67 (30)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h)	126 (3200) 16 (406) 19 (8.6) 150 (241)	246 (6248) 40 (1016) 67 (30) 145 (233)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	126 (3200) 16 (406) 19 (8.6) 150 (241) 150 (241)	246 (6248) 40 (1016) 67 (30) 145 (233) 95 (153)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg)	126 (3200) 16 (406) 19 (8.6) 150 (241) 150 (241) 44 (20)	246 (6248) 40 (1016) 67 (30) 145 (233) 95 (153) 160 (72.6)
Length, in (mm) Width (1/2 Wave Spacing), in (mm) Weight, lbs. (kg) Rated Wind Velocity, No Ice, mph (km/h) Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) Lateral Thrust @ 100 mph, wind, lbs. (kg) Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	126 (3200) 16 (406) 19 (8.6) 150 (241) 150 (241) 44 (20) 193 (26.7)	246 (6248) 40 (1016) 67 (30) 145 (233) 95 (153) 160 (72.6) 1364 (188.7)

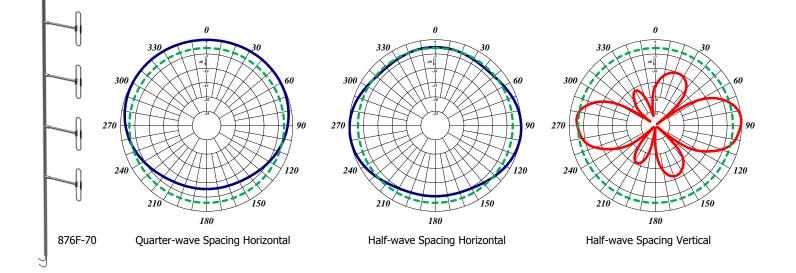




DUAL EXPOSED DIPOLE ARRAY

138-512 MHz







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DUAL ANTENNA ARRAY

Dual Antenna Array

The Dual Antenna Arrays are available in many different configurations. Our VHF, UHF, or 700/800/900 MHz antennas can be combined onto one mast. These antennas can be mixed and matched from our 870, 770 and 790 series antennas. All our antennas can be completely customized to your particular applications. Our antennas can be configured for top or side mount.

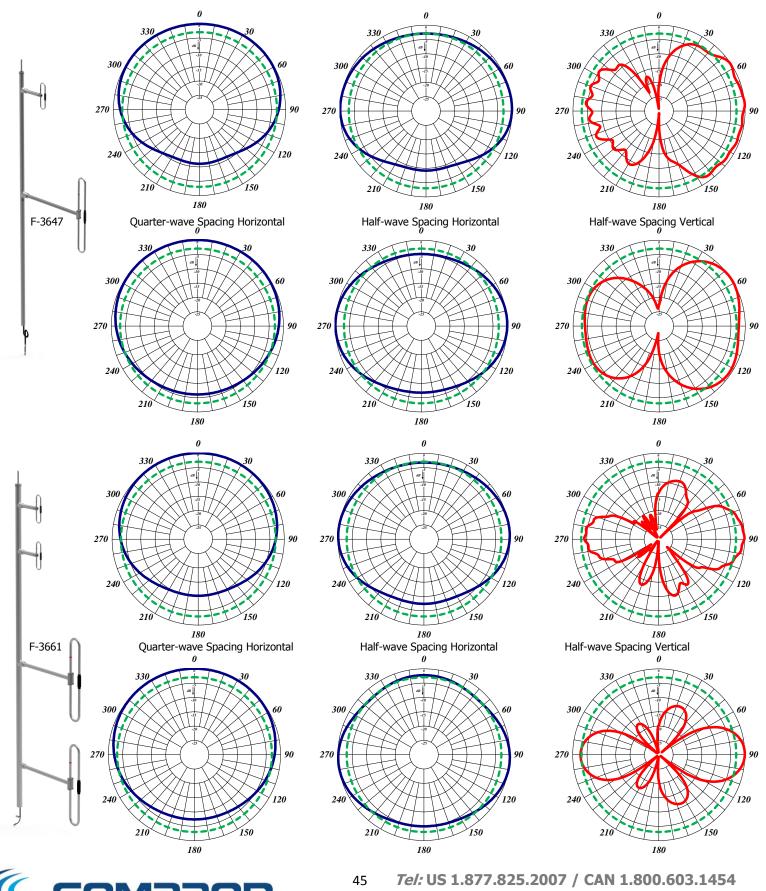
- A low VSWR version, with maximum gain over the specified frequencies. •
- Ideal for applications where the costs are calculated per antenna. ٠
- Heavy-duty versions are available. .
- Multiple combinations are offered and customizable. Please contact our Technical Support team for consultation. •

Electrical Specifications	F-36	576	F-3	661	F-36	547
Frequency Range, MHz	138-174	406-512	138-174	406-512	138-174	406-512
Nominal Gain, dBd	8.0-8.5	8.0-8.5	5.0-5.5	5.0-5.5	2.0-2.5	2.0-2.5
Number of Dipoles	4	4	2	2	1	1
Bandwidth 1.5:1 VSWR, MHz	36	106	36	106	36	106
Polarization	Vert	ical	Ver	tical	Vert	ical
Pattern	Offs	set	Of	fset	Offs	set
Power Rating, Watts	30	0	3	00	30	0
Nominal Impedance, Ohms	50)	Į.	50	50	D
Lightning Protection	DC Gr	ound	DC G	iround	DC Gr	ound
Standard Termination	Туре М	I Male	Туре	N Male	Туре М	I Male
Mechanical Specifications	F-36	576	F-3	661	F-36	547
Length, in (mm)	354 (8	3992)	186 ((4724)	126 (3	3200)
Width (1/2 Wave Spacing), in (mm)	41 (1	041)	40 (1016)	40 (1	016)
Weight, lbs. (kg)	117 ((53)	59 (26.8)	26 (1	1.9)
Rated Wind Velocity, No Ice, mph (km/h)	110 (177)	150	(241)	170 (272)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (1	.37)	110	(177)	140 (225)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	315 (143)	154	(70)	67 (3	0.5)
Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	2469	(341)	720	(100)	110	(15)
Projected Area, ft ² (m ²)	12 (1	.12)	5.7 ((0.53)	2.5 (0).23)
Mounting Information Mast O.D. (mm)	3.5"	(89)	2.9"	(73)	1.9"	(48)
	3.5"	-			-	-



DUAL ANTENNA ARRAY

138-512 MHz

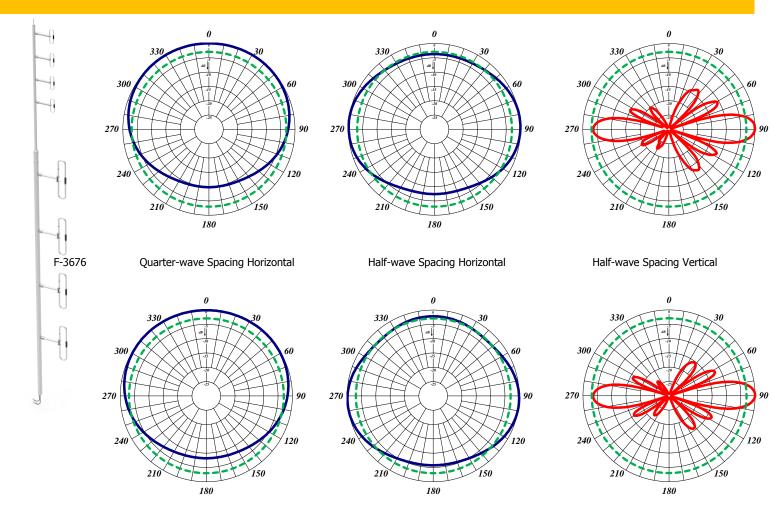


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DUAL ANTENNA ARRAY

138-512 MHz





VHF EXPOSED DIPOLES WITH REFLECTORS

870 Series VHF Exposed Dipoles with Reflectors

The F-37XX Series antennas are our 870 Series VHF Exposed Dipoles with Reflectors. They are available in 1, 2, 4 dipole configurations. All our antennas can be completely customized to your applications. Our antennas can be black anodized, fully welded, side mount or top mount, and heavy-duty versions are available.

The Reflectors provide a higher degree of directivity. This product is ideal for state or country borders. We have seen great success with being able to shape the RF patterns in the 870-series antenna line.

- Each antenna is configured as a 3/8 wave version.
- The reflectors provide more directivity and greater front-to-back ratios.
- These exposed dipoles have internal cabling and fixed dipole to mast spacing.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	F-3729	F-3713	F-3766
Frequency Range, MHz	138-174	138-174	138-174
Nominal Gain, dBd	2.5-3.0	7.0	9.0-10.0
Number of Dipoles	1	2	4
Number of Reflectors	7	7	7
Bandwidth 1.5:1 VSWR, MHz	36	36	36
Polarization	Vertical	Vertical	Vertical
Pattern	Directional	Directional	Directional
Power Rating, Watts	200	450	450
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	F-3729	F-3713	F-3766
Length, in (mm)	72 (1829)	120 (3048)	240 (6096)
Width (1/2 Wave Spacing), in (mm)	50 (1270)	53 (1346)	53 (1346)
Weight, lbs. (kg)	34.3 (15.6)	57.2 (26)	100.3 (45.5)
Mounting Information Mast O.D.	2.4" (61)	2.4" (61)	2.9" (73)
* See appendix for ordering information	n (page 222) *		

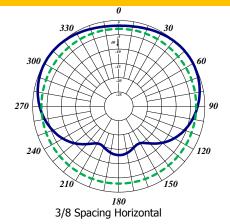


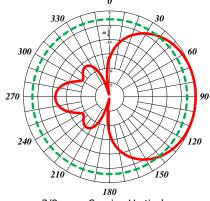


VHF EXPOSED DIPOLES WITH REFLECTORS

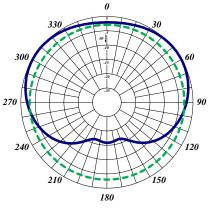
138-174 MHz



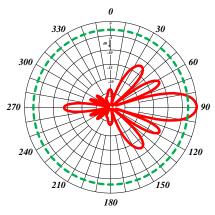




3/8 wave Spacing Vertical



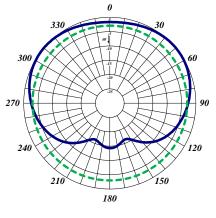
3/8 Spacing Horizontal

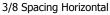


3/8 wave Spacing Vertical

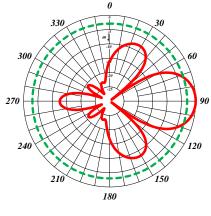


F-3766





48



3/8 wave Spacing Vertical



Tel: US 1.877.825.2007 / CAN 1.800.603.1454 Email: sales@comprodcom.com www.comprodcom.com Fax: 1.800.554.1033

790 Series Enclosed Dipole

The 790 Series Enclosed Dipoles are available in 2, 4 or 8 dipole configurations. All our antennas can be completely customized to your particular applications.

- Each antenna is offered in an offset pattern, 1/4 or 1/2 wave versions.
- Broadband antennas are ideal for trunking or cellular applications.
- Weatherproof radome to ensure continuous service during severe environmental conditions.
- Versions with 3, 6, and 9-degree downtilt are also available.

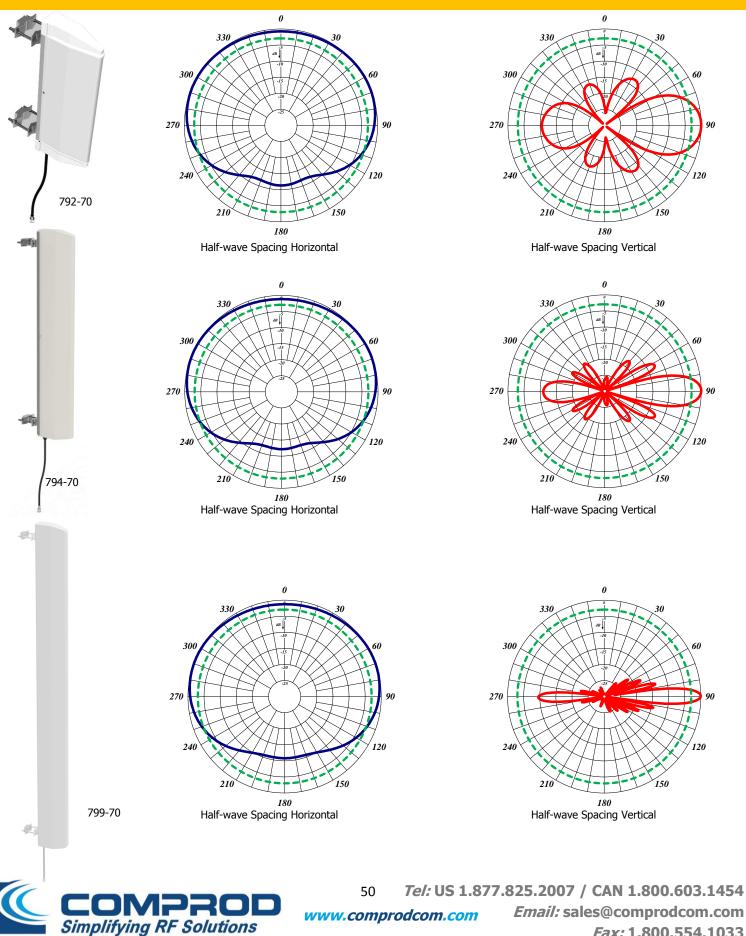
792-70	794-70	799-70
746-960	746-960	746-960
5.0	8.0	10.0
2	4	8
150	150	150
Vertical	Vertical	Vertical
Offset	Offset	Offset
150	300	500
50	50	50
DC Ground	DC Ground	DC Ground
Type N Male	Type N Male	Type N Male
792-70	794-70	799-70
22 (559)	44.5 (1130)	94 (2388)
2.5 (64)	2.5 (64)	2.5 (64)
8.8 (4)	14 (6.5)	24 (11)
100 (162)	100 (162)	100 (162)
85 (137)	85 (137)	85 (137)
36.4 (16.5)	73 (33)	153 (59)
1.4 (0.13)	2.7 (0.25)	5.7 (0.53)
	. ,	
1.5-2.88" O.D.	1.5-2.88" O.D.	1.5-2.88" O.D.
	746-960 5.0 2 150 Vertical Offset 150 DC Ground Type N Male 22 (559) 22 (559) 2.5 (64) 8.8 (4) 100 (162) 85 (137) 36.4 (16.5)	746-960 746-960 5.0 8.0 2 4 150 150 Vertical Vertical Vertical Offset Offset Offset 150 300 50 50 DC Ground DC Ground Type N Male Type N Male 22 (559) 44.5 (1130) 22 (559) 44.5 (1130) 2.5 (64) 2.5 (64) 100 (162) 100 (162) 88 (4) 14 (6.5) 36.4 (16.5) 73 (33)





790 SERIES ENCLOSED DIPOLE

746-960 MHz



www.comprodcom.com

Email: sales@comprodcom.com Fax: 1.800.554.1033

790 SERIES ENCLOSED DIPOLE WITH REFLECTOR

790 Series Enclosed Dipoles with Reflector

The 790 Series Enclosed Dipoles with Reflector are available in 2, 4, or 8 dipole configurations. These antennas can be adjusted from 60° to 160°. All our antennas can be completely customized to your particular applications.

- These antennas have 1/4 wave spacing to the reflector.
- Broadband antennas are ideal for trunking or cellular applications. •
- Reflector is field adjustable and has 5 positions: 60°, 90°, 105°, 130° and 160°. .
- Weatherproof radome to ensure continuous service during severe environmental conditions. •
- Heavy-duty versions are available. Please contact our Technical Support team for consultation. •

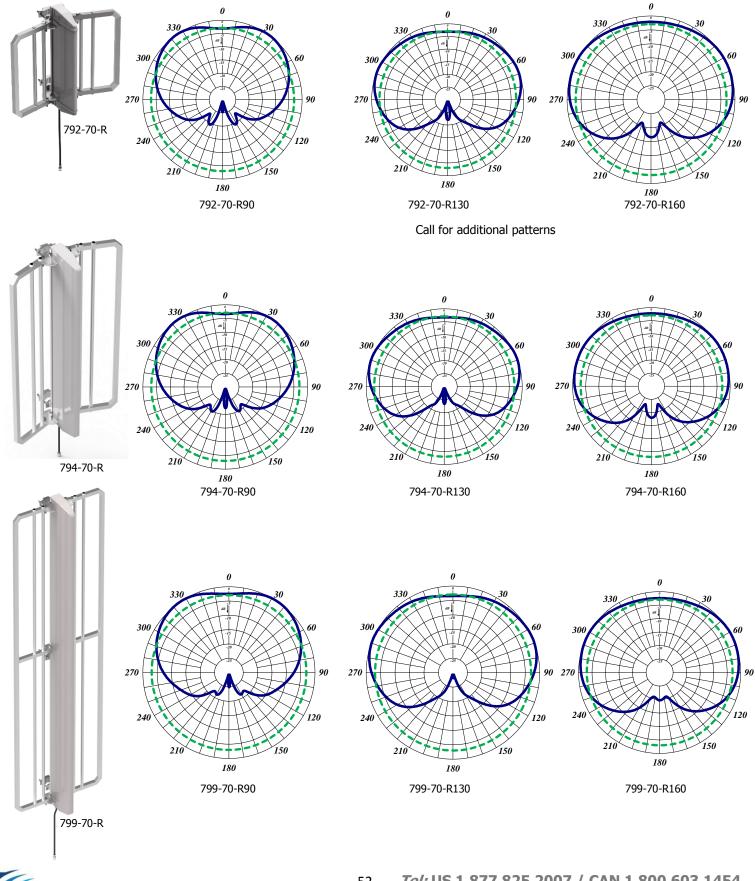
Electrical Specifications	792-70-R	794-70-R	799-70-R	F F
Frequency Range, MHz (in splits)	746-960	746-960	746-960	
Nominal Gain, dBd	Up to 8.0	Up to 13.5	Up to 15.0	
Number of Dipoles	2	4	8	
Bandwidth 1.5:1 VSWR, MHz	150	150	150	
Polarization	Vertical	Vertical	Vertical	
Pattern	Directional	Directional	Directional	
Power Rating, Watts	150	300	500	
Nominal Impedance, Ohms	50	50	50	1
Lightning Protection	DC Ground	DC Ground	DC Ground	
Standard Termination	Type N Male	Type N Male	Type N Male	794-7
Mechanical Specifications	792-70-R	794-70-R	799-70-R	
Length, in (mm)	22 (559)	44.5 (1130)	94.5 (2395)	
Width (1/4 Wave Spacing), in (mm)	25 (635)	25 (635)	25 (635)	
Weight, lbs. (kg)	16.5 (7.5)	24 (10.9)	42 (19)	
Rated Wind Velocity, No Ice, mph (km/h)	100 (162)	100 (162)	100 (162)	
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (137)	85 (137)	85 (137)	
Lateral Thrust @ 100 mph, wind, lbs. (kg)	57(26)	115 (52)	243 (110)	
Projected Area, ft ² (m ²)	2.0 (0.19)	4.3 (0.40)	9 (0.84)	
Mounting Information	1.5-2.88" O.D.	1.5-2.88" O.D.	1.5-2.88" O.D.	
* See appendix for ordering information of different	frequency split	s (page 222) *		



'0-R

790 SERIES ENCLOSED DIPOLE WITH REFLECTOR

746-960 MHz



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VHF YAGI ANTENNA

290 Series VHF Yagi Antennas

The 290 Series VHF Yagi Antenna are available in 2, 3, and 6 element configurations. All our antennas can be completely customized to your applications. Our antennas can be black anodized, welded, vertically or horizontally polarized, and heavy-duty versions are available. By default, our Yagi antennas are end mounted. But a center mount or an extended boom are also available for certain models.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- Optionally have the entire antenna welded for added durability.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

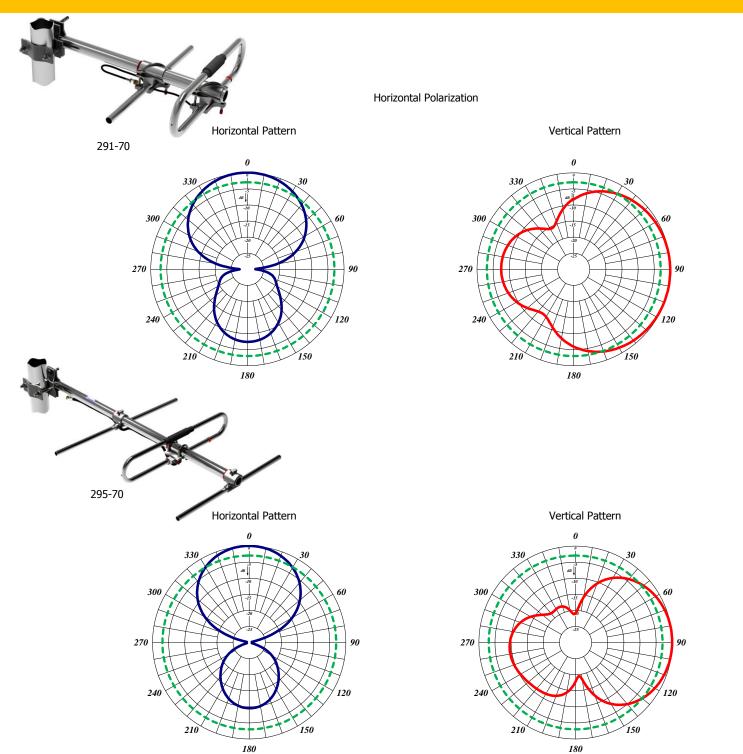


Electrical Specifications	291-70	295-70	290-70	250-70
Frequency Range, MHz (in splits)	138-174	138-174	138-174	138-174
Nominal Gain, dBd	3.5	6.5	9.5	7
Number of Elements	2	3	6	6
Bandwidth 2.0:1 VSWR, MHz (Ctr. Freq. %)	36	4%	4%	36
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Horizontal Pol.)	140°	90°	62°	80°
Vertical Beamwidth (Horizontal Pol.)	70°	61°	50°	60°
Front to Back, dB	15	12	17	25
Pattern	Directional	Directional	Directional	Directional
Power Rating, Watts	350	350	350	250
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	291-70	295-70	290-70	250-70
Length, in (mm)	50 (1270)	60 (1524)	108 (2743)	104 (2642)
Width, in (mm)	40 (1016)	43 (1092)	42 (1067)	42 (1067)
Weight, lbs. (kg)	4.8 (2.2)	6.5 (2.9)	12.0 (5.4)	12.0 (5.4)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)	145 (223)	120 (177)	110 (177)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	105 (169)	100 (161)	85 (137)	90 (145)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	29 (13)	39 (18)	65 (29)	95 (43)
Projected Area, ft ² (m ²)	1.1 (0.10)	1.4 (0.13)	2.4 (0.22)	2.6 (0.24)
Mounting Hardware Included	181-85 Clamp	181-85 Clamp	115-85 Clamp	115-85 Clamp

* See appendix for ordering information (page 223) *



VHF YAGI ANTENNA



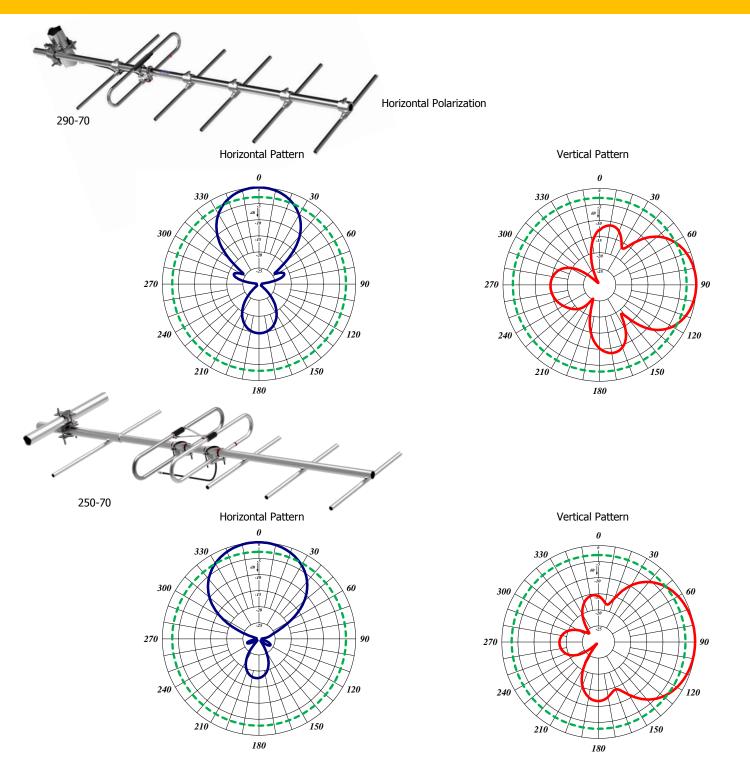


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VHF YAGI ANTENNA





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220MHz YAGI ANTENNA

290 Series 220MHz Yagi Antennas

The 290 Series 220MHz Yagi Antennas are available in 2, 3, and 6 element configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, welded, vertically or horizontally polarized, and heavy-duty versions are available. By default, our Yagi antennas are end mounted. But a center mount or an extended boom are also available for certain models.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- Option to have the entire antenna welded for added durability.
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

290-70-2HDWB

Electrical Specifications	291-70-2	295-70-2	290-70-2
Frequency Range, MHz	215-225	215-225	215-225
Nominal Gain, dBd	3.5	6.5	9.5
Number of Elements	2	3	6
Bandwidth 1.5:1 VSWR, MHz (Center Freq. %)	10	10	10
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Horizontal Pol.)	140°	900	62º
Vertical Beamwidth (Horizontal Pol.)	70°	360	50°
Front to Back, dB	15	12	17
Pattern	Directional	Directional	Directional
Power Rating, Watts	350	350	350
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	291-70-2	295-70-2	290-70-2
Length, in (mm)	32 (813)	48 (1219)	84 (2134)
Width, in (mm)	29 (737)	28 (711)	27 (686)
Weight, lbs. (kg)	3.7 (1.7)	4.8 (2.2)	9.0 (4.1)
Rated Wind Velocity, No Ice, mph (km/h)	165 (266)	155 (249)	145 (233)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	145 (233)	130 (209)	100 (161)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	19.4 (8.8)	27 (12)	47 (21.3)
Torsional Moment @ 100 mph, ft.*lb (kg*m)	25 (3.5)	52 (7.2)	138 (19)
Projected Area, ft ² (m ²)	0.7 (0.07)	1.0 (0.09)	1.75 (0.16)
Mounting Hardware Included	181-85 Clamp	181-85 Clamp	115R-85 Clamp

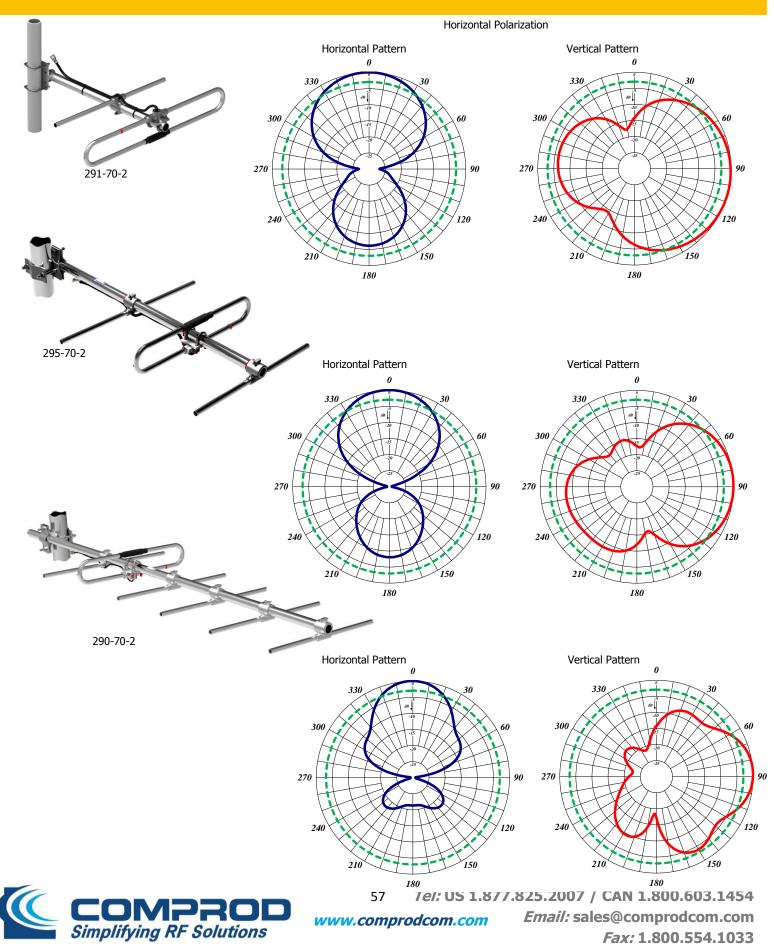
* See appendix for ordering information (page 223) *



215-225 MHz

220MHz YAGI ANTENNA

215-225 MHz



UHF YAGI ANTENNA

UHF Yagi Antennas Series

The UHF Yagi Antenna Series is available in 2, 3, 7 elements and our 70 MHz wideband configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, fully welded, vertically or horizontally polarized, and heavy-duty versions are available. By default, our Yagi antennas are end mounted. But a center mount or an extended boom are also available for certain models.

- Each antenna has a rugged, fully welded design to withstand harsh environmental conditions. •
- The mounting hardware supplied allows either vertical or horizontal polarization. .
- Heavy-duty versions are available. Please contact our Technical Support team for consultation. •

Electrical Specifications	F-3872	433-70	430-70	480-70
Frequency Range, MHz (in splits)	406-470	406-470	380-512	406-470
Nominal Gain, dBd	3.5	6.5	10.0	10.0
Number of Elements	2	3	7	7
Bandwidth 1.5:1 VSWR, MHz (Center Freq. %)	24	24	24	64
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	138°	83°	62°	62º
Vertical Beamwidth (Vert. Pol.)	72°	590	48º	50°
Front to Back, dB	10	12	20	17
Pattern	Directional	Directional	Directional	Directional
Power Rating, Watts	350	350	350	350
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	F-3872	433-70	430-70	480-70
Length, in (mm)	28 (711)	23 (584)	45 (1143)	45 (1143)
Width, in (mm)	14.5 (368)	14 (355)	14.5 (368)	14.4 (366)
Weight, lbs. (kg)	2.8 (1.3)	2.9 (1.3)	3.9 (1.8)	3.9 (1.8)
Rated Wind Velocity, No Ice, mph (km/h)	160 (257)	160 (257)	150 (241)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	120 (193)	120 (193)	110 (177)	110 (177)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	9 (4.1)	8.7 (4.0)	16 (7.3)	15 (6.8)
Projected Area, ft ² (m ²)	0.34 (0.03)	0.32 (0.03)	0.61 (0.06)	0.55 (0.05)
Mounting Hardware Included	127-85 Clamp	127-85 Clamp	127-85 Clamp	127-85 Clamp

* See appendix for ordering information of different frequency splits (page 223) *



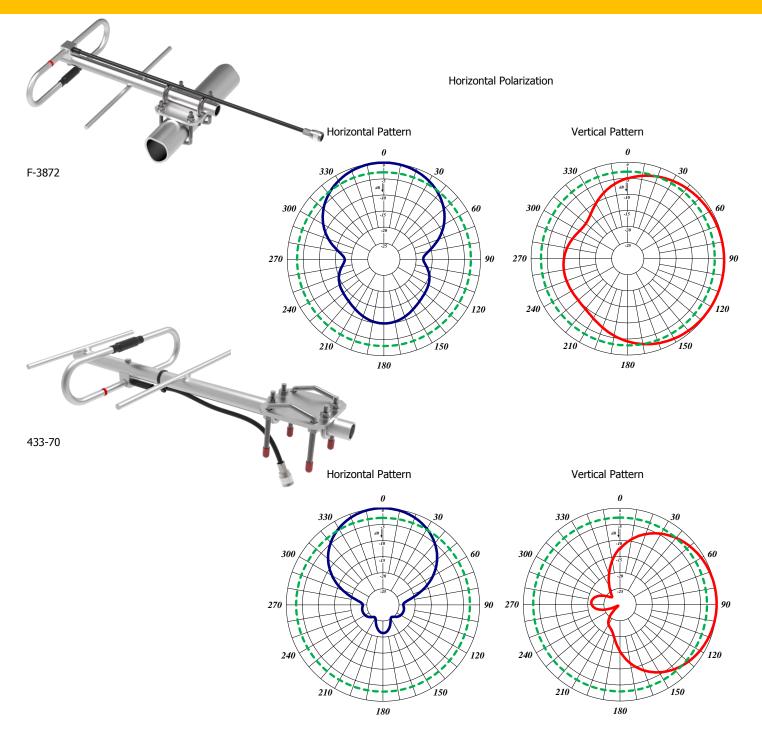
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480-7

UHF YAGI ANTENNA





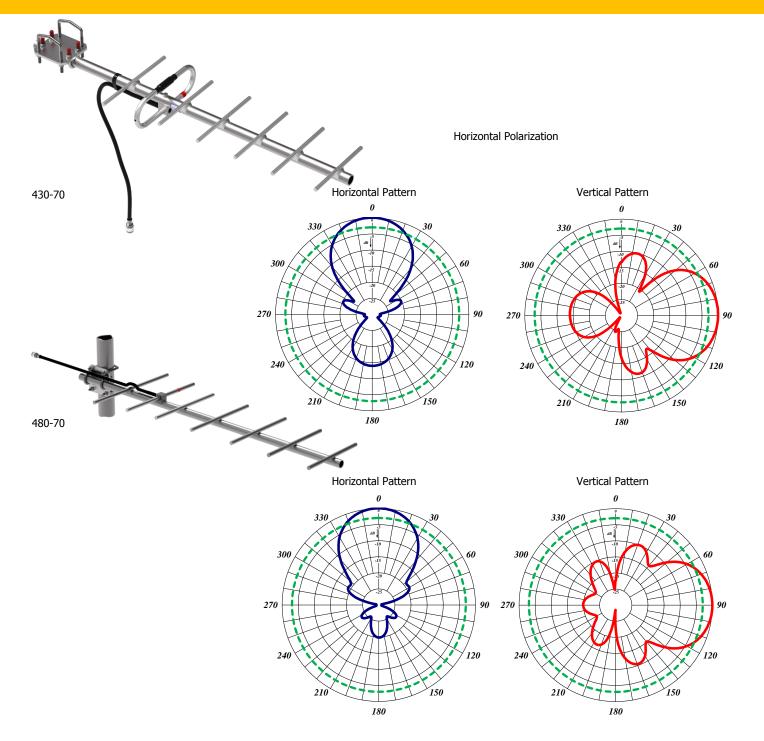
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UHF YAGI ANTENNA

380-512 MHz





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980 YAGI ANTENNAS SERIES

980 Yagi Antennas Series

The 980 Yagi Antenna Series are available in 2, 3, 7, 12 element configurations. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, vertically or horizontally polarized.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- All 980 Series Yagi antennas are fully welded. .
- Heavy-duty versions are available. Please contact our Technical Support team for consultation.

983-70

Electrical Specifications	982-70	983-70	980-70	987-70
Frequency Range, MHz (in splits)	900-930	746-960	746-960	746-960
Nominal Gain, dBd	3.5	6.5	10.0	12.0
Number of Elements	2	3	7	12
Bandwidth 1.5:1 VSWR, MHz (Ctr. Freq. %)	30	85	85	85
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Horizontal Pol.)	128°	990	56°	41º
Vertical Beamwidth (Horizontal Pol.)	66°	60°	42°	38º
Front to Back, dB	9	16	20	20
Pattern	Directional	Directional	Directional	Directional
Power Rating, Watts	200	200	200	200
Nominal Impedance, Ohms	50	50	50	50
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	982-70	983-70	980-70	987-70
Length, in (mm)	11 (280)	13 (330)	27 (686)	41 (1041)
Width, in (mm)	6.5 (165)	8 (203)	8 (203)	8 (203)
Weight, lbs. (kg)	1.7 (0.76)	1.8 (0.82)	2.5 (1.1)	3 (1.4)
Rated Wind Velocity, No Ice, mph (km/h)	160 (257)	160 (257)	150 (241)	140 (225)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	120 (193)	120 (193)	110 (177)	100 (161)
Lateral Thrust @ 100 mph, wind, lbs.(kg)	2.6 (1.2)	2.8 (1.3)	7 (3.2)	11 (5.0)
Projected Area, ft ² (m ²)	0.10	0.13	0.26	0.41
Mounting Hardware Included	127-85 Clamp	127-85 Clamp	127-85 Clamp	127-85 Clamp

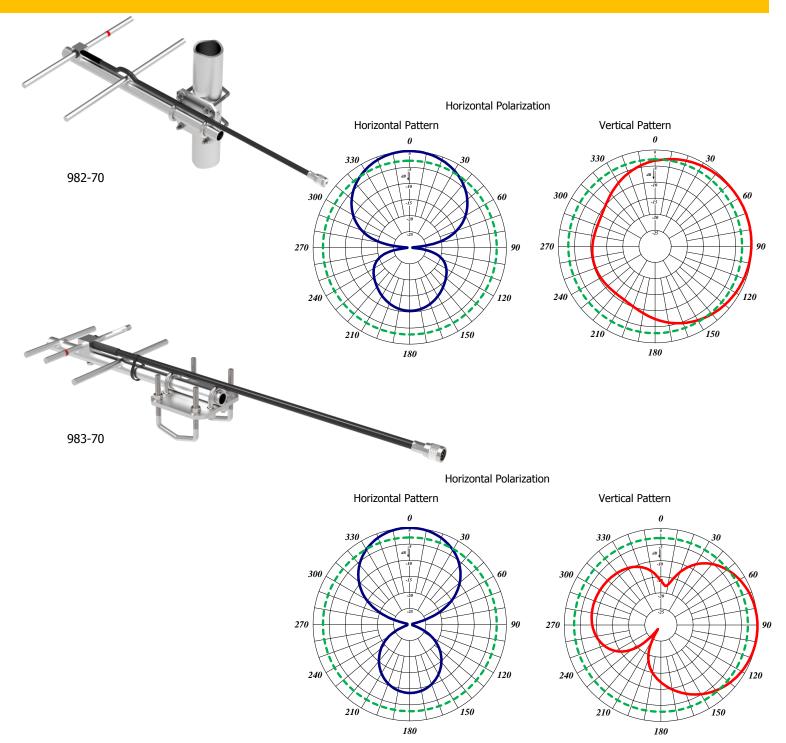
* See appendix for ordering information of different frequency splits (page 223) *

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980 YAGI ANTENNAS SERIES





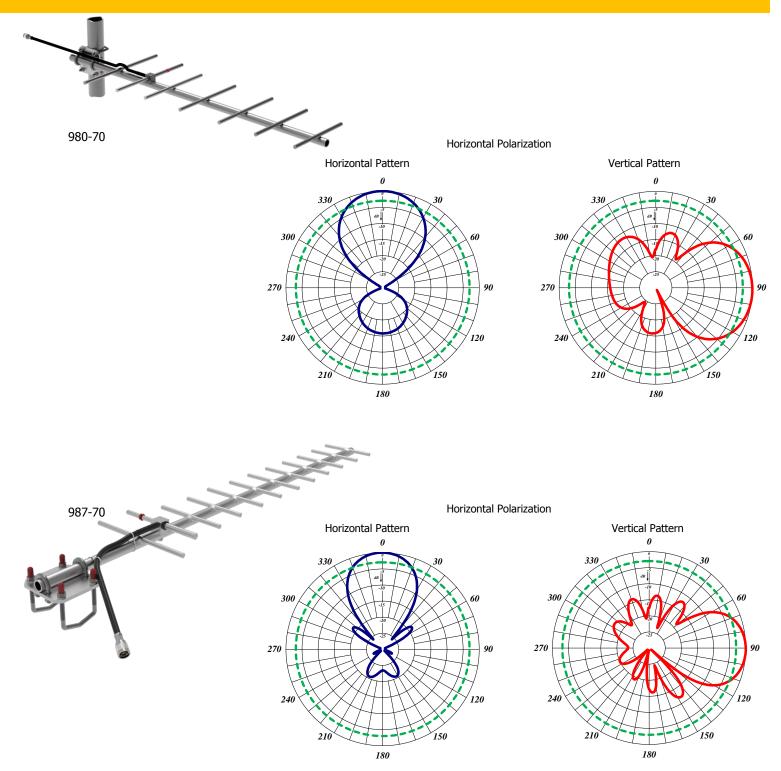
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980 YAGI ANTENNAS SERIES

746-960 MHz





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490 YAGI ANTENNAS SERIES

490 Heavy-duty Yagi Antennas Series

The 490 Heavy-duty Yagi Series is an extremely rugged, 7 elements configuration antenna. All our antennas can be completely customized to your particular applications. Our antennas can be black anodized, vertically or horizontally polarized.

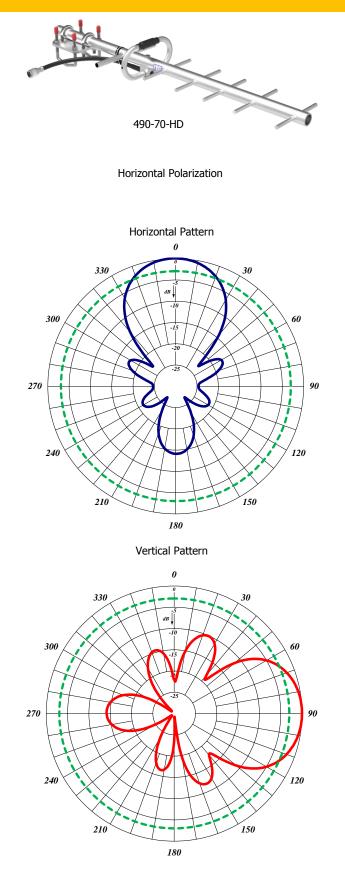
- Each antenna has an extremely rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- The 490 Series Yagi antennas are fully welded.
- DC ground for lightning protection.

Electrical Specifications	490-70-HD
Frequency Range, MHz (in splits)	806-960
Nominal Gain, dBd	10.0
Number of Elements	7
Bandwidth: 1.5:1 VSWR, MHz	85
Polarization	Vert. or Horiz.
Horizontal Beamwidth (Horizontal Pol.)	56°
Vertical Beamwidth (Horizontal Pol.)	42°
Front to Back, dB	20
Pattern	Directional
Power Rating, Watts	200
Nominal Impedance, Ohms	50
Standard Termination	Type N Male
Mechanical Specifications	490-70-HD
Length, in (mm)	27 (686)
Width, in (mm)	8 (203)
Weight, lbs. (kg)	2.5 (1.1)
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	150 (241)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	38 (17)
Bending Moment @ top clamp: 100 mph, ft.*lb (kg*m)	13 (1.8)
Projected Area, ft ² (m ²)	0.4 (0.04)
Mounting Hardware Included	127-85

* See appendix for ordering information of different frequency splits (page 224) *



490 YAGI ANTENNAS SERIES





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RADOME YAGI ANTENNA

Radome Yagi Antennas Series

The Radome Yagi Antenna Series are available in UHF and 700/800/900 MHz configurations. The UHF model is offered with a Fiberglass or PVC Radome. The 700/800/900 MHz model is offered in PVC. All our antennas can be completely customized to your particular applications.

- Each antenna has a rugged design to withstand extreme environmental conditions. •
- The mounting hardware supplied supports either vertical or horizontal polarization. •
- DC ground for lightning protection. •
- The PVC enclosure is 1/2 inch thick. •
- The PVC radome models are our Heavy-Duty Versions.

Electrical Specifications	425-70-HDR	426-70-R	490-70-HDR
Frequency Range, MHz (in splits)	406-470	406-470	746-960
Nominal Gain, dBd	10	10	10
Number of Elements	7	7	7
Bandwidth: 1.5:1 VSWR, MHz	20	20	72
Polarization	Vert./Hor.	Vert./Hor.	Vert./Hor.
Horizontal Beamwidth (Horizontal Pol.)	62º	62º	56°
Vertical Beamwidth (Horizontal Pol.)	480	48 ⁰	4 <u>2</u> 0
Front to Back, dB	20	20	20
Pattern	Directional	Directional	Directional
Power Rating, Watts	250	250	150
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	425-70-HDR	426-70-R	490-70-HDR
Length, in (mm)	31 (787)	30 (762)	29 (737)
Width, in (mm)	16 (406)	16 (406)	14 (356)
Weight, lbs. (kg)	44 (20)	19 (8.6)	28 (12)
Radome Material	PVC	Fiberglass	PVC
Rated Wind Velocity, No Ice, mph (km/h)	150 (241)	120 (193)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	105 (169)	110 (177)	115 (185)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	69 (31.3)	61 (27.7)	47.4 (21.5)
Projected Area, ft ² (m ²)	2.6 (0.24)	2.3 (0.21)	1.8 (0.17)
Mounting Hardware Included	173-85 clamp	173-85 clamp	173-85 clamp

* See appendix for ordering information of different frequency splits (page 224) *

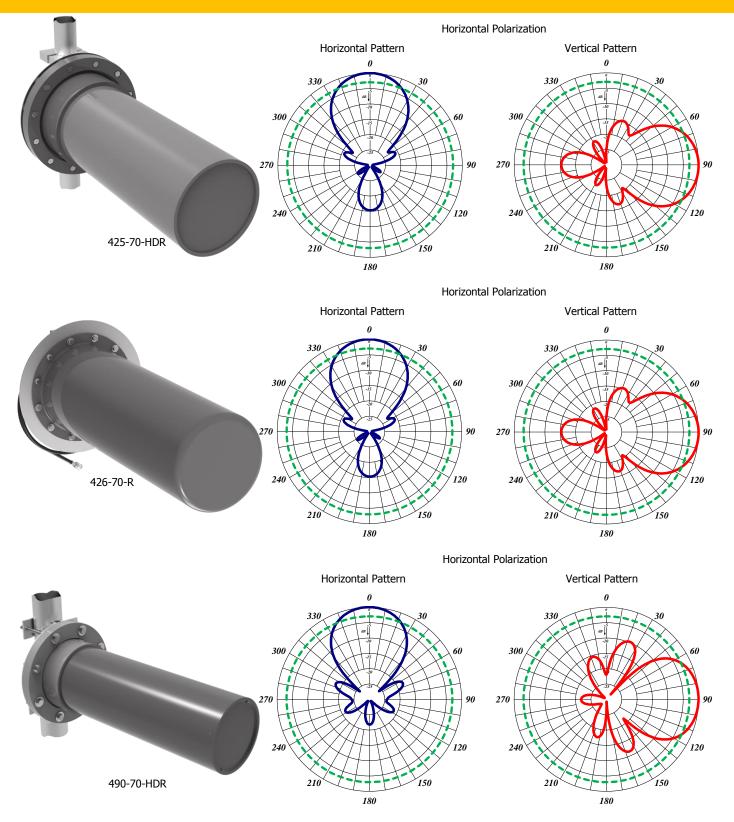
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490-70-HDR

RADOME YAGI ANTENNA

406-960 MHz





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VHF CORNER REFLECTOR

VHF Corner Reflector Antenna Series

The Corner Reflector Antennas are available in VHF, UHF, 700/800/900 MHz configurations. These antennas have a very high front-to-back ratio. They are broadband and are ideal for point-to-point applications. Performance is constant throughout the band.

- Each antenna has a rugged design to withstand harsh environmental conditions. •
- Single dipole mounted in the front of a 90° reflector, providing good directivity •
- These antennas have ultra-low VSWR ratings and will not exceed 2.0:1 VSWR ratio with 0.5" of radial ice. •
- The mounting hardware supplied allows either vertical or horizontal polarization. DC ground for lightning • protection. Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	470-70	470-70-HD	471-70	471-70-HD
Frequency Range, MHz	138-174	138-174	138-174	138-174
Nominal Gain, dBd	7.0	7.0	10.0	10.0
Bandwidth: 1.5:1 VSWR, MHz	36	36	36	36
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	67º	67º	50°	50°
Vertical Beamwidth (Vert. Pol.)	75°	75°	66°	66°
Front to Back, dB	30	30	30	30
Pattern	Directional	Directional	Directional	Directional
Power Rating, Watts	250	250	250	250
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	470-70	470-70-HD	471-70	471-70-HD
Length, in (mm)	48 (1219)	48 (1219)	72 (1829)	72 (1829)
Width, in (mm)	75 (1905)	75 (1905)	120 (3048)	120 (3048)
Weight, lbs. (kg)	39 (17.7)	57 (25.8)	66 (30)	72 (32.7)
Rated Wind Velocity, No Ice, mph (km/h)	100 (61)	140 (225)	100 (61)	140 (225)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (137)	100 (161)	85 (137)	100 (161)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	144 (65)	236 (107)	320 (145)	398 (181)
Projected Area, ft ² (m ²)	5.3 (0.5)	8.8 (0.82)	11.9 (1.10)	14.8 (1.38)
Mounting Hardware Included	173-85 Clamp	173-85 Clamp	173-85 Clamp	173-85 Clamp

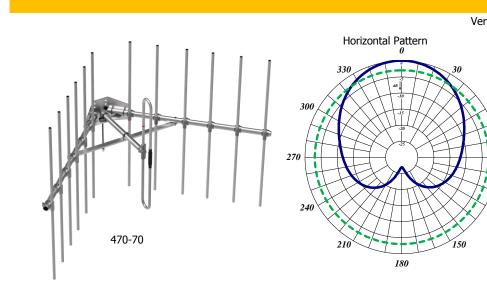
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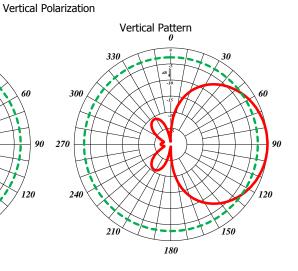


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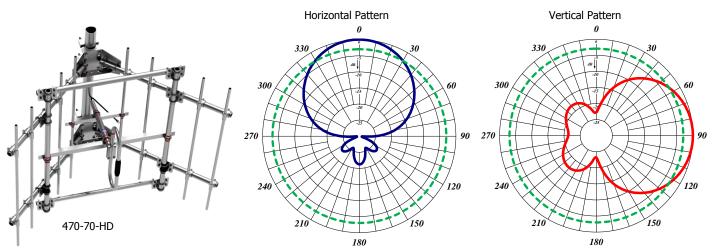
VHF CORNER REFLECTOR

138-174 MHz





Vertical Polarization





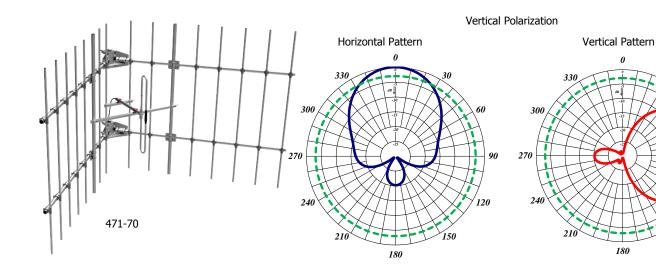
VHF CORNER REFLECTOR

138-174 MHz

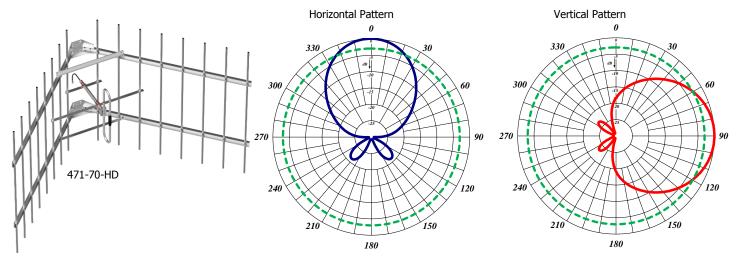
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120

150



Vertical Polarization





220 MHz CORNER REFLECTOR

220MHz Corner Reflector Antenna Series

The Corner Reflector Antennas are available in VHF, UHF, 700/800/900 MHz configurations. These antennas have a very high front-to-back ratio. They are broadband and are ideal for point-to-point applications. Performance is constant throughout the band.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- Single or Dual Dipole mounted in the front of a 90° reflector, providing good directivity.
- These antennas have ultra-low VSWR ratings, and will not exceed 2.0:1 VSWR ratio with 0.5" of radial ice.
- The supplied mounting hardware allows either vertical or horizontal polarization. DC ground for lightning protection. Heavy-duty versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	470-70-2	470-70-2HD	471-70-2
Frequency Range, MHz	215-225 215-225		215-225
Nominal Gain, dBd	7.0	7.0	10.0
Bandwidth: 1.5:1 VSWR, MHz	10	10	10
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	67º	67º	50°
Vertical Beamwidth (Vert. Pol.)	75°	75°	66°
Front to Back, dB	30	30	30
Pattern	Directional	Directional	Directional
Power Rating, Watts	250	250	250
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	470-70-2	470-70-2HD	471-70-2
Length, in (mm)	48 (1219)	48 (1219)	72 (1829)
Width, in (mm)	75 (1905)	75 (1905)	120 (3048)
Weight, lbs. (kg)	39 (17.7)	57 (25.8)	55 (30)
Rated Wind Velocity, No Ice, mph (km/h)	100 (161)	140 (225)	100 (161)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (137)	100 (161)	85 (137)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	144 (65)	236 (107)	320 (145)
Projected Area, ft ² (m ²)	5.3 (0.5)	8.8 (0.82)	11.9 (1.10)
Mounting Hardware Included	172-85 Clamp	172-85 Clamp	172-85 Clamp

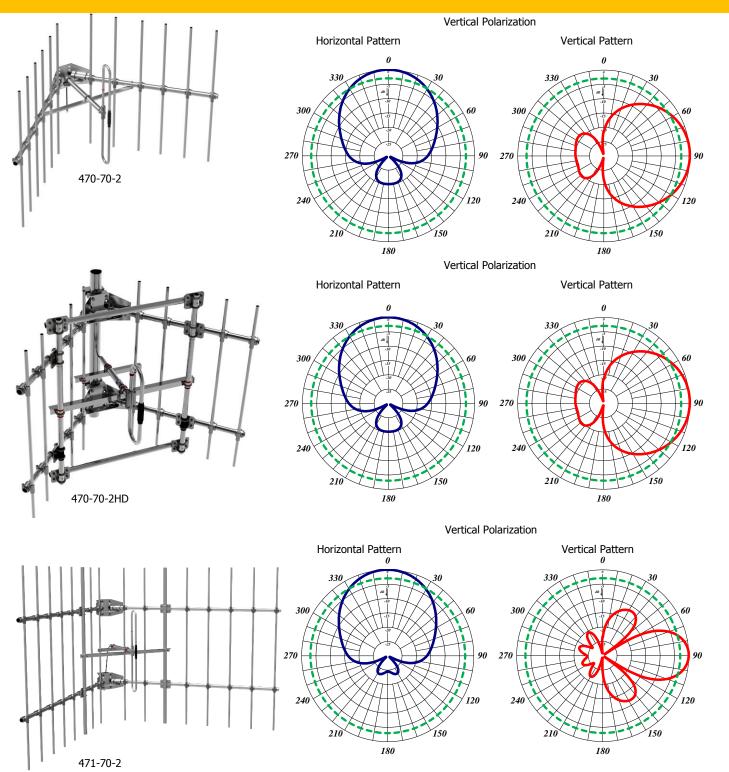




BASE STATION ANTENNAS

220 MHz CORNER REFLECTOR

215-225 MHz





UHF CORNER REFLECTOR

The Corner Reflector Antennas are available in VHF, UHF, 700/800/900 MHz configurations. These antennas have a very high front-to-back ratio. They are broadband and are ideal for point-to-point applications. Performance is constant throughout the band. Each antenna has a rugged design to withstand harsh environmental conditions.

- Single or Dual Dipole mounted in the front of a 90° reflector, providing good directivity.
- The 365-70 is a highly directive parabolic antenna consisting of a back-firing dipole reflector assembly for increased gain and directivity.
- The mounting hardware supplied will permit either vertical or horizontal polarization. DC ground for lightning protection. Heavy-duty versions are available. Please contact our Technical Support team.

Electrical Specifications	440-70	440-70-HD	442-70-HD	365-70-HD
Frequency Range, MHz (in splits)	406-512	406-512	406-512	406-470
Nominal Gain, dBd	9.5	9.5	12.0	15.0
Bandwidth: 1.5:1 VSWR, MHz	64	64	64	20
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	60°	60°	40°	320
Vertical Beamwidth (Vert. Pol.)	45°	45°	34º	18º
Front to Back, dB	25	25	25	24
Pattern	Directional	Directional	Directional	Directional
Power Rating, Watts	100	100	100	250
Nominal Impedance, Ohms	50	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male	Type N Male
Mechanical Specifications	440-70	440-70-HD	442-70-HD	365-70-HD
Length, in (mm)	30 (762)	30 (762)	48 (1219)	82 (2083)
Width, in (mm)	50 (1905)	50 (1905)	50 (1905)	41 (1041)
Weight, lbs. (kg)	22 (10)	36 (16)	42 (19.1)	25 (11.3)
Rated Wind Velocity, No Ice, mph (km/h)	125 (201)	135 (217)	125 (201)	100 (161)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (137)	95 (153)	85 (137)	85 (137)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	97 (44)	210 (934)	185 (84)	233 (109)
Projected Area, ft ² (m ²)	3.6 (0.34)	3.6 (0.34)	6.9 (0.64)	8.7 (0.8)
Mounting Hardware Included				

* See appendix for ordering information of different frequency splits (page 224) *

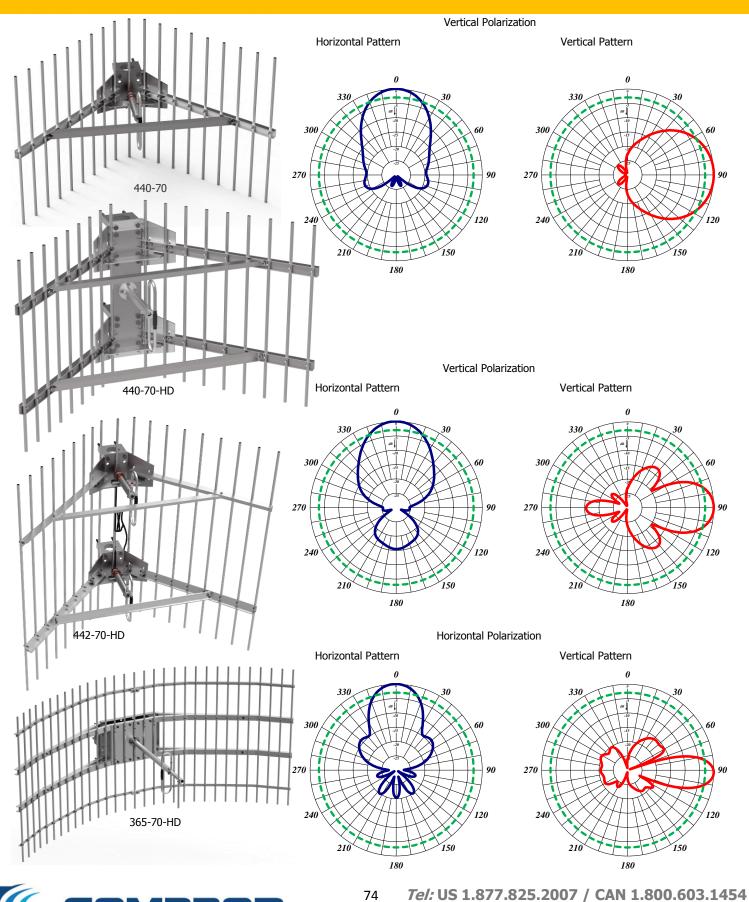


BASE STATION ANTENNAS

Simplifying RF Solutions

UHF CORNER REFLECTOR

406-512 MHz



www.comprodcom.com Email: sales@coi

Email: sales@comprodcom.com *Fax:* 1.800.554.1033

PARABOLIC DIRECTIONAL ANTENNA

The Reflector antenna is a SRSP-507 Category A compliant antenna. These antennas have a very high front-to-back ratio. They are broadband and are ideal for point-to-point applications where restrictions on beam width are present. Performance is constant throughout the band.

- Mechanical resonance reducing design. •
- Each antenna has a rugged design to withstand harsh environmental conditions.
- The 965-70 is a highly-directive parabolic antenna consisting of a back-firing dipole reflector assembly for • increased gain and directivity.
- These antennas have ultra-low VSWR ratings, and will not exceed 1.5:1 VSWR ratio with 0.5" of radial ice.
- The mounting hardware supplied will permit either vertical or horizontal polarization. DC ground for lightning • protection. Black Anodized and Dipole Radome protected versions are available. Please contact our Technical Support team for consultation.

Electrical Specifications	965-70-HD	965-70-HDB	965-70-HDBR
Frequency Range, MHz (in splits)	764-960	764-960	764-960
Nominal Gain, dBd	16.5	16.5	16.5
Bandwidth: 1.5:1 VSWR, MHz	72	72	72
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	12	12	12
Vertical Beamwidth (Vert. Pol.)	30	30	30
Front to Back, dB	25	25	25
Pattern	Directional	Directional	Directional
Power Rating, Watts	200	200	200
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	965-70-HD	965-70-HDB	965-70-HDBR
Length, in (mm)	68 (1727)	68 (1727)	68 (1727)
Width, in (mm)	36 (914)	36 (914)	36 (914)
Weight, lbs. (kg)	49 (22.3)	49 (22.3)	51 (23.2)
Rated Wind Velocity, No Ice, mph (km/h)	110 (177)	110 (177)	110 (177)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	85 (137)	85 (137)	85 (137)
Lateral Thrust @ 100 mph, wind, lbs. (kg)	1.9 (0.46)	1.9 (0.46)	1.9 (0.46)
Projected Area, ft ² (m ²)	4.9 (0.46)	4.9 (0.46)	5 (0.47)
Mounting Hardware Included	112-85 Clamp	112-85 Clamp	112-85 Clamp
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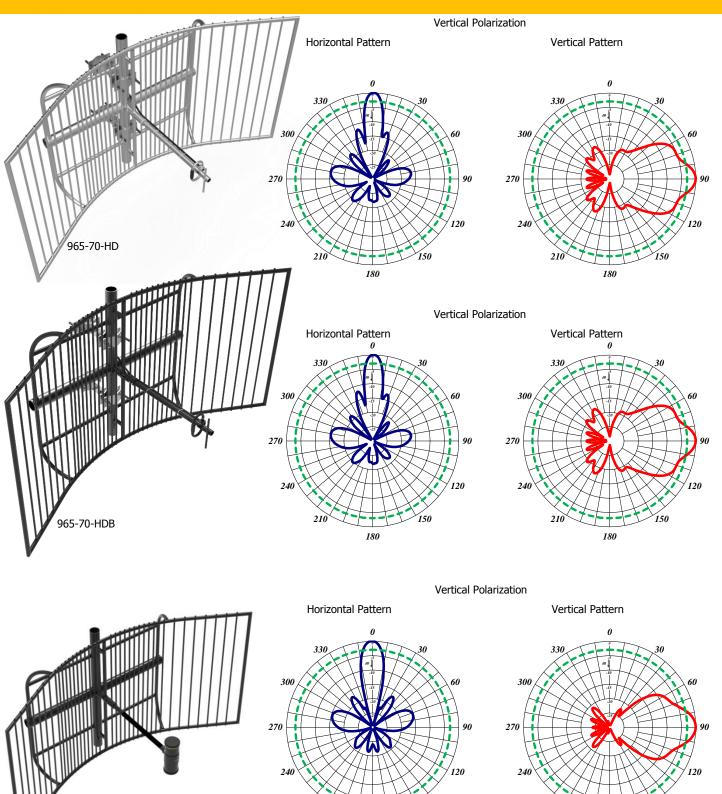
* See appendix for ordering information of different frequency splits (page 224) *



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BASE STATION ANTENNAS





965-70-HDBR

COMPROI Simplifying RF Solutions

76 www.comprodcom.com

180

150

210

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180

210

150

764-960 MHz

LOG PERIODIC ANTENNA

VHF Log Periodic Series Antennas

The Log Periodic Antennas are available in VHF and UHF configurations. These antennas have an extremely good frontto-back ratio. They are wideband and are ideal for base station or in-building applications. These antennas are great for providing underground coverage within garages. Performance is constant throughout the band.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.
- Please contact our Technical Support team for consultation.

Electrical Specifications	635-70	655-70	638-70
Frequency Range, MHz	138-174	138-174	138-174
Nominal Gain, dBd	6.0	9.0	8.0
Bandwidth: 1.5:1 VSWR, MHz	42	42	36
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	106°	106°	75°
Vertical Beamwidth (Vert. Pol.)	60°	30o	55°
Front to Back, dB	25	25	25
Pattern	Directional	Directional	Directional
Power Rating, Watts	500	500	500
Nominal Impedance, Ohms	50	50	50
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications	635-70	655-70	638-70
Length, in (mm)	42 (1067)	42 (1067)	60 (1524)
Width, in (mm)	44 (1118)	44 (1118)	44.5 (1130)
Weight, lbs. (kg)	8 (3.6)	16 (7.2)	16.8 (7.8)
Rated Wind Velocity, No Ice, mph (km/h)	158 (254)	158 (254)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	108 (173)	108 (173)	108 (173)
Lateral Thrust @ c, wind, lbs. (kg)	31 (14)	31 (14)	47.5 (21.5)
Torsional Moment @ 100 mph, ft.*lb (kg*m)	56 (7.8)	N/A	121 (16.7)
Projected Area, ft ² (m ²)		0.86 (0.08)	1.26 (0.120)
	0.86 (0.08)	0.00 (0.00)	

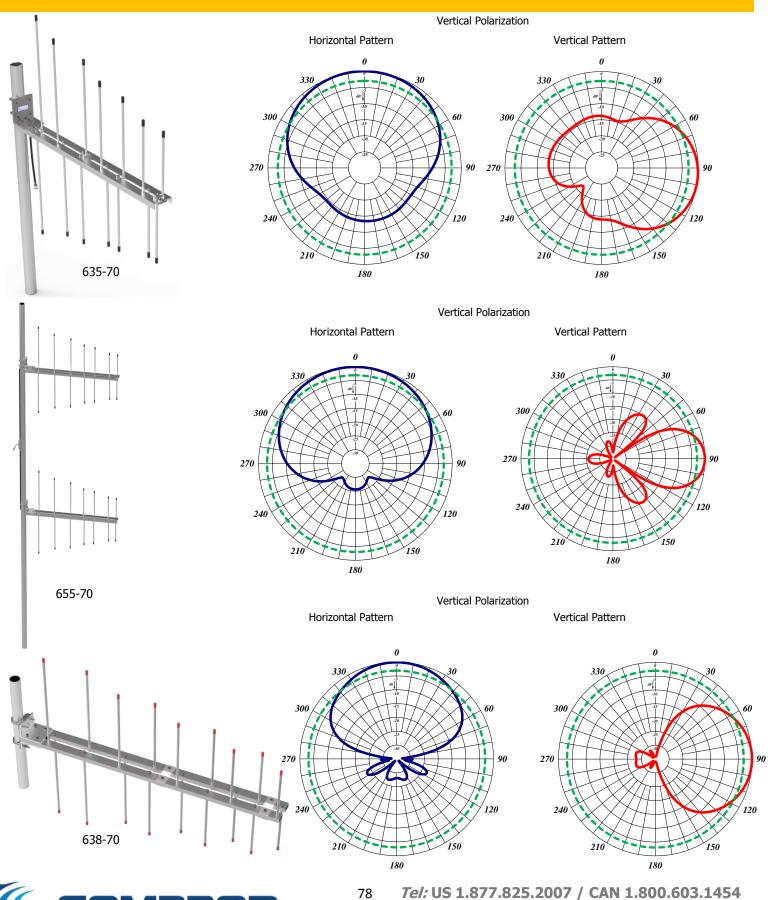
* See appendix for ordering information (page 224) *



BASE STATION ANTENNAS

LOG PERIODIC ANTENNA

138-174 MHz



COMPROD Simplifying RF Solutions

LOG PERIODIC ANTENNA

UHF Log Periodic Series Antennas

The Log Periodic Antennas are available in VHF and UHF configurations. These antennas have a very high front-to-back ratio. They are wideband and are ideal for base station or in-building applications. We have had great success with these antennas providing underground coverage within garages. Performance is constant throughout the band.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.
- Please contact our Technical Support team for consultation.

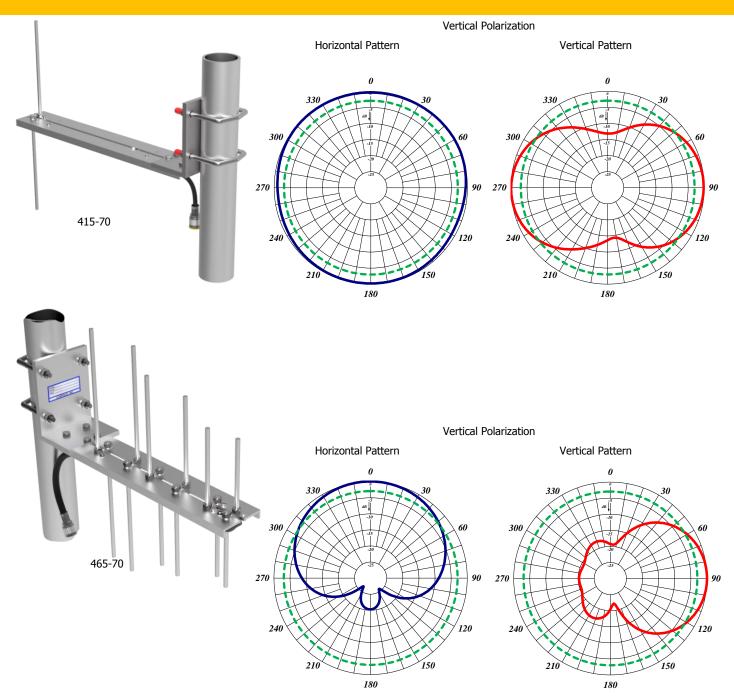
Electrical Specifications	415-70	465-70
Frequency Range, MHz (in splits)	406-512	406-512
Nominal Gain, dBd	Unity	6.0
Bandwidth: 1.5:1 VSWR, MHz	40	64
Polarization	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Vert. Pol.)	N/A	106°
Vertical Beamwidth (Vert. Pol.)	84º	60°
Front to Back, dB	N/A	20
Pattern	Directional	Directional
Power Rating, Watts	250	250
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male
Mechanical Specifications	415-70	465-70
Length, in (mm)	18 (457)	15 (381)
Width, in (mm)	14.3 (362)	16 (406)
Weight, lbs. (kg)	2.6 (1.2)	3.3 (1.47)
Rated Wind Velocity, No Ice, mph (km/h)	160 (257)	150 (241)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	120 (193)	110 (177)
Lateral Thrust @ c, wind, lbs. (kg)	12 (5.4)	14 (6.4)
Torsional Moment @ 100 mph, ft.*lb (kg*m)	6.3 (0.88)	6.4 (0.89)
Projected Area, ft ² (m ²)	0.44 (0.04)	0.50 (0.05)
Mounting Information: Max Pipe Size (mm)	1" to 2.5" (64)	1" to 2.5" (64)
$\ensuremath{^*}$ See appendix for ordering information of diffe	erent frequency sp	lits (page 225) *



BASE STATION ANTENNAS

LOG PERIODIC ANTENNA

406-512 MHz







Our industry-proven clamps will provide strong and reliable mounting for antennas to pipes, angles and flat surfaces. Most of our clamps are fabricated using hot-dipped galvanized high-grade steel. They incorporate oversized U-bolts and fastening hardware. We also offer stainless steel versions as an alternative for use in extremely corrosive environments.



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www.comprodcom.com

90° PIPE-TO-PIPE

Model	1st Pipe	2nd Pipe	Clamp Material	Screw Material
110-85	1.5″ to 3.5″ dia.	2.25″ to 5″ dia.	Steel HDG	Steel HDG
110R-85	1.5″ dia.	2.25″ to 5″ dia.	Steel HDG	Steel HDG
115-85	1.5″ to 3.5″ dia.	1.5" to 3.5" dia.	Steel HDG	Steel HDG
115R-85	1.5″ dia.	1.5" to 3.5" dia.	Steel HDG	Steel HDG
124-85	1" to 2.4" dia.	1" to 2.4" dia.	Aluminum	Steel HDG
127-85	1" dia.	1" to 2.4" dia.	Aluminum	Steel HDG
132-85	1.9″ dia.	1″ dia.	Aluminum Cast	Stainless Steel
134-85	1.5″ dia.	0.75″ dia.	Aluminum Cast	Stainless Steel
171-85	1.9″ dia.	1.9″ dia.	Aluminum Cast	Steel HDG
181-85	1.5″ dia.	1" to 2.4" dia.	Aluminum	Steel HDG
185-85	1.9″ dia.	1.5″ dia.	Aluminum Cast	Steel HDG

HDG=Hot Dip Galvanized



110-85 110R-85 115-85 115R-85



124-85







132-85 171-85







185-85



PARALLEL PIPE-TO-PIPE

Model	1st Pipe	2nd Pipe	Clamp Material	Screw Material
107-85	1.5″ to 3.5″ dia.	1.5″ to 3.5″ dia.	Steel HDG	Steel HDG
107R-85	1.5″ dia.	1.5" to 3.5" dia.	Steel HDG	Steel HDG
108-85	2.5″ to 5″ dia.	2.5" to 5" dia.	Steel HDG	Steel HDG
112-85	1.5″ to 3.5″ dia.	1.5" to 3.5" dia.	Steel HDG	Steel HDG
112L-85	2.25″ to 5″ dia.	2.25" to 5" dia.	Steel HDG	Steel HDG
112M-85	1.5″ to 3.5″ dia.	2.25" to 5" dia.	Steel HDG	Steel HDG
126-85	1.5″ dia.	1.5" to 2.4" dia.	Aluminum	Steel HDG
167-85	1.5″ dia.	0.75" to 2.375" dia.	Steel HDG	Steel HDG
167B-85	0.75″ dia.	0.75" to 2.375" dia.	Steel HDG	Steel HDG



112-85 112L-85 112M-85







107-85





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PARALLEL OR 90° PIPE-TO-PIPE

Model	1st Pipe	2nd Pipe	Clamp Material	Screw Material
174-85	0.88" to 2.88" dia.	0.88" to 2.88" dia.	Aluminum	Steel HDG
188-85	1" to 2.4" dia.	1" to 2.4" dia.	Steel HDG	Steel HDG
189-85	1" to 2.4" dia.	1" to 2.4" dia.	Aluminum	Steel HDG

HDG=Hot Dip Galvanized



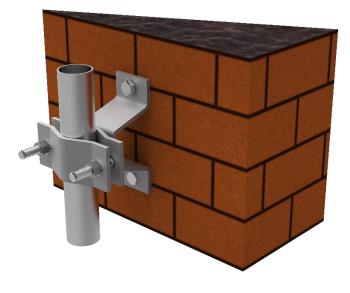


PIPE-TO-FLAT SURFACE (or wood pole)

Model	Pipe O.D.	Clamp Material	Screw Material
115P-85	1.5" to 3.5" dia.	Steel HDG	Steel HDG
115W-85	1.5" to 3.5" dia.	Steel HDG	Steel HDG
130-85	0.5" to 1.5" dia.	Aluminum	Steel HDG
186-85	1.5" to 3.5" dia.	Steel HDG	Steel HDG

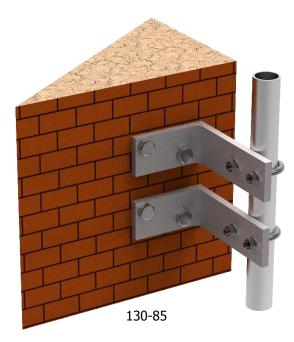
HDG=Hot Dip Galvanized

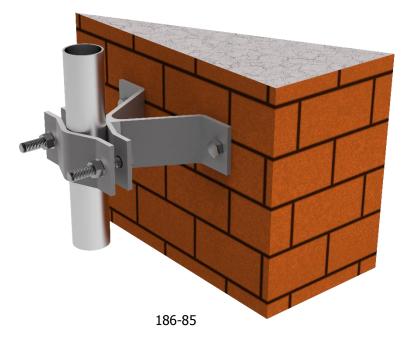




115P-85

115W-85







 85
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PARALLEL PIPE-TO-ANGLE

Model	1st Pipe	Angle	Clamp Material	Screw Material
113-85	1.5" to 3.5" dia.	8" x 8" max. 60º	Steel HDG	Steel HDG
113L-85	2.25" to 5" dia.	8" x 8" max. 60º	Steel HDG	Steel HDG
116-85	1.5" to 3.5" dia.	8" x 8" max. 90º	Steel HDG	Steel HDG
116L-85	2.25" to 5" dia.	8" x 8" max. 90º	Steel HDG	Steel HDG
133-85	1.5" to 3.5" dia.	5" x 5" max. 60º	Steel HDG	Steel HDG
133L-85	2.25" to 5" dia.	5" x 5" max. 60º	Steel HDG	Steel HDG
136-85	1.5" to 3.5" dia.	5" x 5" max. 90º	Steel HDG	Steel HDG
136L-85	2.25" to 5" dia.	5" x 5" max. 90º	Steel HDG	Steel HDG
163-85	1.5" to 3.5" dia.	3" x 3" max. 60º	Steel HDG	Steel HDG
163L-85	2.25" to 5" dia.	3" x 3" max. 60º	Steel HDG	Steel HDG
166-85	1.5" to 3.5" dia.	3" x 3" max. 90º	Steel HDG	Steel HDG
166L-85	2.25" to 5" dia.	3" x 3" max. 90°	Steel HDG	Steel HDG

HDG=Hot Dip Galvanized



116-85; 116L-85; 136-85; 136L-85; 166-85; 166L-85

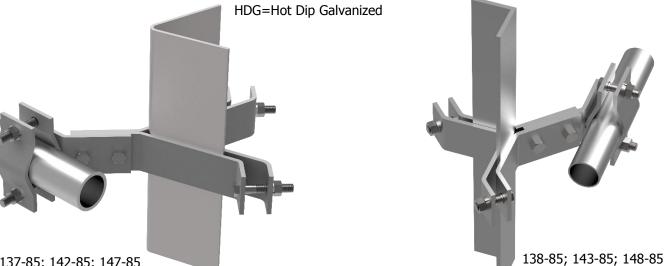


113-85; 113L-85; 133-85; 133L-85;163-85; 163L-85



90° PIPE-TO-ANGLE

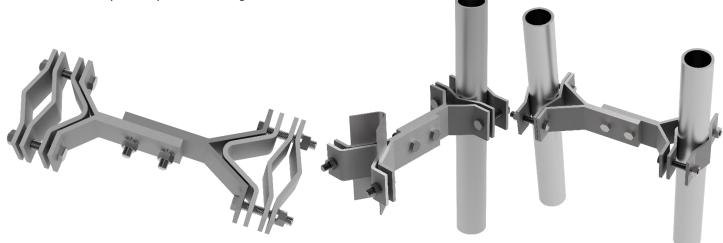
Model	1st Pipe	Angle	Clamp Material	Screw Material
137-85	1.5" to 3.5" dia.	5" x 5" max. 60º	Steel HDG	Steel HDG
138-85	1.5" to 3.5" dia.	5" x 5" max. 90º	Steel HDG	Steel HDG
142-85	1.5" to 3.5" dia.	8" x 8" max. 60º	Steel HDG	Steel HDG
143-85	1.5" to 3.5" dia.	8" x 8" max. 90º	Steel HDG	Steel HDG
147-85	1.5" to 3.5" dia.	3" x 3" max. 60º	Steel HDG	Steel HDG
148-85	1.5" to 3.5" dia.	3" x 3" max. 90º	Steel HDG	Steel HDG



137-85; 142-85; 147-85

183-85	Ріре	Angle	Clamp Material	Screw Material
Pipe-to-Angle	1.5" to 3.5" dia.	3.5" x 3.5" max. 60°	Steel HDG	Steel HDG
Pipe-to-Angle	1.5" to 3.5" dia.	2.75" x 2.75" max. 90°	Steel HDG	Steel HDG
Pipe-to-Pipe	1.5" to 3.5" dia.	1.5" to 3.5" dia.	Steel HDG	Steel HDG

183-85 one clamp three possible arrangements:





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OMNIDIRECTIONAL PIPE-TO-ANGLE

Model	Pipe	Angle	Clamp Material	Screw Material
175-85	1.5" to 3.5" dia.	3" x 3" max. 60º	Steel HDG	Steel HDG
176-85	1.5" to 3.5" dia.	5" x 5" max. 60°	Steel HDG	Steel HDG
177-85	1.5" to 3.5" dia.	8" x 8" max. 60º	Steel HDG	Steel HDG
178-85	1.5" to 3.5" dia.	3" x 3" max. 90º	Steel HDG	Steel HDG
179-85	1.5" to 3.5" dia.	5" x 5" max. 90º	Steel HDG	Steel HDG
180-85	1.5" to 3.5" dia.	8" x 8" max. 90º	Steel HDG	Steel HDG

HDG=Hot Dip Galvanized

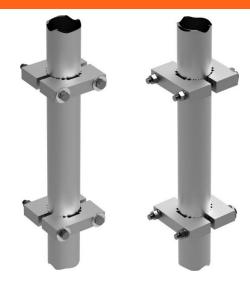


OMNIDIRECTIONAL PIPE-TO-PIPE

Iodel	1st Pipe	2nd Pipe	Clamp Material	Screw Materia
122-85	0.75″ to 2.38 dia.	0.75" to 2.38 dia.	Aluminum	Steel HDG

OMNIDIRECTIONAL PIPE-TO-PIPE

Model	Pipe	Clamp Material	Screw Material
172-85	2.88" dia.	Aluminum	Steel HDG
173-85	2.38" dia.	Aluminum	Steel HDG





SIDE-MOUNTING ASSEMBLY

Model	Tower Leg	Holder	Tower	Clamp Material	Screw Material
150-85	0.875" to 2.4"	Al. pipe 1.9"	1.5"- 40	Steel & Aluminum	Steel HDG
151-85	0.875" to 2.4"	Al. pipe 1.9"	1.5"- 40	Steel & Aluminum	Steel HDG
152-85	0.875" to 2.4"	Al. pipe 2.375"	2.0"- 40	Steel & Aluminum	Steel HDG
153-85	5" x 5" max. 60°	1.5" to 3.5"	60° and 5"	Steel & Aluminum	Steel HDG
154-85	5" x 5" max. 90°	1.5" to 3.5"	90º and 5"	Steel & Aluminum	Steel HDG
155-85	8" x 8" max. 60°	1.5" to 3.5"	60 ^o and 8"	Steel & Aluminum	Steel HDG
156-85	8" x 8" max. 60°	1.5" to 3.5"	90º and 8"	Steel & Aluminum	Steel HDG
157-85	3" x 3" max. 60°	1.5" to 3.5"	60° and 3"	Steel & Aluminum	Steel HDG
158-85	3" x 3" max. 60°	1.5" to 3.5"	90° and 3"	Steel & Aluminum	Steel HDG

EACH KIT INCLUDES

150-85	4 Clamps Model 124-85
	2 Support pipes 1.5" #40 x 10 feet
152-85	4 Clamps Model 124-85
	2 Support pipes 1.5" #40 x 10 feet
154-85	4 Clamps Model 137-85
	2 Al. pipe 2" #40 x 10 feet
156-85	4 Clamps Model 143-85
	2 Al. pipe 2" #40 x 10 feet
158-85	4 Clamps Model 148-85
	2 Al. pipe 2" #40 x 10 feet

$$\begin{split} & \mbox{151-85} \\ & \mbox{$$

HDG=Hot Dip Galvanized





153-85, 155-85, 157-85



154-85, 156-85, 158-85



150-85, 151-85, 152-85

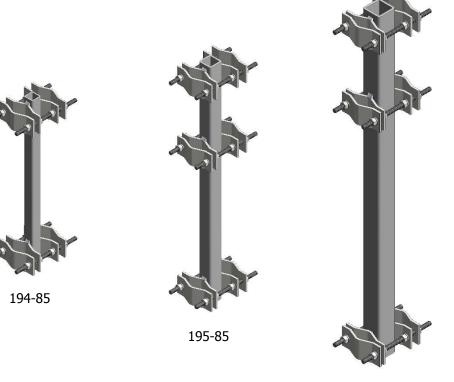
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GI HOL	DER KIT			
Model	Tower Leg	Holder Section	Clamp Material	Screw Material
123-85	1.5" to 3.5"	Al. angle 1.5" x 1.5" x 0.1875"	Steel & Aluminum	Steel HDG

NO TORSION CLAMPS – Pipe-to-Pipe Clamp for Parallel Mounting

Model	1st Pipe	2nd Pipe	Clamp Material	Height
194-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.	Steel HDG	24″
195-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.	Steel HDG	34″
196-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.	Steel HDG	44″



196-85



Filters and Components





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Types of Loops



Bandpass

Loop



Pass/Reject

Loop



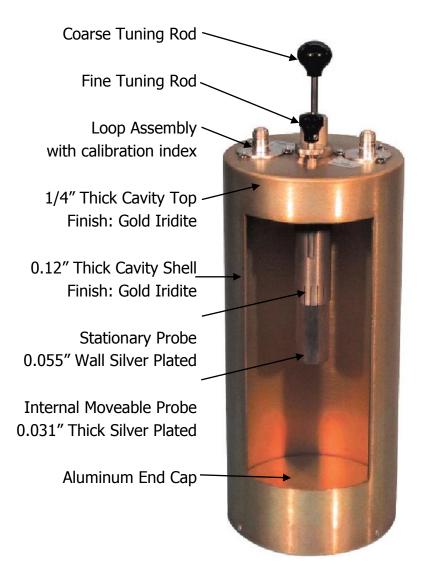
Notch Loop



```
X-Pass
Loop
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Cavity Construction: Mechanical Components



CAVITY FILTER DESIGN

We at Comprod have one of the most rugged, high quality cavity filter designs in the industry with our proven, temperature-compensated cavities. The flexibility of having four versions of filters, (Bandpass, Notch, Pass-Reject, and X-Pass), available in 2", 4", 6.625" and 10" cavities, allows for any system to be designed for maximum performance and efficiency. All of the following filters can be achieved by changing the loops, while maintaining the same cavity, when using the 6.625" and 10" cavities.

- 1. <u>Bandpass Cavity Filter</u> Passes one narrow band of frequencies and attenuates all others with increasing attenuation above and below the pass frequency. The adjustable selectivity characteristics using rotatable loops allows for a trade-off between insertion loss (0.5 to 3.0 dB) and selectivity. This filter is ideal when the interfering frequencies are not known with any degree of accuracy or when high amounts of broadband filtering are required.
- <u>Notch Filter</u> Passes a relatively wide band of required frequencies, while rejecting a very narrow band of undesired frequencies. Notch depth is variable from 15 to 25 dB. Both the pass and notch frequencies must be known. The Notch Filter is recommended when filtering multiple channel transmitters and receivers. This filter is ideal for very close separations (70-200 kHz) in VHF and (200-400 kHz) in UHF.
- 3. <u>Pass-Reject Filter</u> Passes a relatively narrow band of required frequencies and rejects a specific undesired frequency. This filter has the greatest notch depth when compared to other types of filters. Notch depth is adjustable, but is dependant on the passband insertion loss (0.3 dB or 0.6 dB typical) and frequency separation. This type of filter is the most efficient for moderately close to wide separations of 200 kHz and greater in VHF and 400 kHz and greater in UHF.
- 4. <u>X-Pass</u> A special type of filter for expandable multicoupler/combiner applications. Characteristics are identical to a bandpass filter, but have a third port for coupling to other channels. This filter is ideal for close frequency spacing with extremely low losses, acting similar to a hybrid combiner/multicoupler. The design is extremely flexible and expandable from 1 to 21 cavities per rack with additional channel capabilities.

All of our 6.625" and 10" filters have two hand-movable tuning rods (a coarse and a fine) for faster tuning. Silver-plated adjustable coupling loops and a calibration index label help to facilitate setting the cavity insertion loss as required for each application.

The combination of a heavy-gauge aluminum outer conductor, thick heliarc-welded cavity top plates, heavy silver-plating on micro-finished tuning assemblies, and Invar-based temperature compensation material results in constant performance levels and long-term reliability. Cavity and isolator connectors are type N female, with silver-plated brass bodies and gold-plated center contacts. Thru-line cable assemblies are made with high quality connectors and RG-393B/U Teflon or RG-214/U cable, to provide excellent intermodulation rejection at high system power levels. Gold-plated cable connector center contacts are soldered to the cable, and the dual shield is securely crimped to the connector barrel using pneumatic fixtures and precision dies. All of these attributes contribute to making a superior quality product.

For additional information on our X-Pass, Combiners, Multicouplers, Duplexers, Pass-Reject, Bandpass, or Notch filters, contact our Technical Support team at sales@comprodcom.com.



FILTER NOMENCLATURE PP—FF—XX—YY

- **PP** = Product Category/Family
- **FF** = Frequency Band / Frequency Range
- **XX** = Cavity Size/No. Channels/Load Size/Termination
- **YY** = Mounting Style

PP—I	Product Category / Product Family Codes		
11	Mounting Kits	56	2nd Harmonic Filter
13	Cable Kits/Accessories	57	Combline Filters
19	X-Racks	58	Pre-Amp
21	Low Power Single Junction Isolator	59	Pre-Selector
22	Low Power Dual Junction Isolator	60	Multicoupler (XMF Version – Reject/Pass)
27	Economy Power Dividers	61	Bandpass Filter
29	Low Power Directional Couplers	62	Pass-Reject Filter
41	High Power Single Junction Isolator	63	Notch Filter
42	High Power Dual Junction Isolator	66	Pass-Reject, Helical & Re-Entrant Duplexer
45	RF Loads	68	X-Pass Filter
46	Signal Sampler	69	Paging Filter
47	Power Divider	90	RX Multicoupler
48	Hybrid Decouplers VHF/UHF/800/900MHz	DRC	Dielectric Resonator Star Configuration
49	Hybrid Coupler (Single Band)	DRXC	Dielectric Resonator X-Pass Configuration
50	Compact Hybrid Coupler	HTC	Hybrid Transmit Combiner
51	Band pass Conversion Loops	TTA	Tower Top Amplifier
52	Pass-Reject Conversion Loops	XBC	X-Band Coupler (Cross Band Couplers)
53	Notch Conversion Loops	XRM	Expandable Receiver Multicoupler
54	X-Pass Conversion Loops	XTC	Expandable Transmit Combiner System
55	Variable Attenuator 3-15 dB	XTR	Expandable Transmit Receiver System



Model	Filter Type	Other Frequency (MHz)	118- 136 MHz	138- 174 MHz	406- 512 MHz	746- 960 MHz	Cavity / Mounting	Power Watts	Connector
61-FF-7X	Bandpass		•	•	•	•	6.625	150	N Female
62-FF-7X	Pass-Reject	30-88	•	•	•	•	6.625	150	N Female
63-FF-7X	Notch		•	•	•	•	6.625	150	N Female
60-13-7X	XMF Multicoupler			•			6.625	90-400	N Female
60-40-7X	XMF Multicoupler				•		6.625	80-300	N Female
66-FF-74	Duplexer			•	•		6.625	350	N Female
66-FF-2P	Duplexer			•			2 x 2	100	BNC / N F
66-FF-44	Duplexer			•	•	•	4 x 4	350	N Female
66-FF-46	Duplexer			•	•	•	4 x 4	350	N Female
5X4-90	Mobile Duplexer			144-174	406-470		1 x 1	50	BNC / N F
5X6-90	Mobile Duplexer			144-174	406-470		1 x 1	50	BNC / N F
68-FF-7X	X-Pass		•	•	•	•	6.625	150	N Female
XTC-06-7X	X-Pass						6.625	150	N Female
XTC-06-0X	X-Pass						10	150	N Female
XTC-11-7X	X-Pass		108-136				6.625	150	N Female
XTC-11-0X	X-Pass		108-136				10	150	N Female
XTC-13-7X	X-Pass			132-174			6.625	150	N Female
XTC-13-0X	X-Pass			132-174			10	150	N Female
XTC-22-7X	X-Pass	215-300					6.625	150	N Female
XTC-22-0X	X-Pass	215-300					10	150	N Female
XTC-38-7X	X-Pass				380-512		6.625	150	N Female
XTC-38-0X	X-Pass				380-512		10	150	N Female
XTC-74-7X	X-Pass					•	6.625	150	N Female
XTC-74-0X	X-Pass					•	10	150	N Female
80-FF-8X	X-Pass Combiner				•	•	19" Rack Mt	60/100	N Female
XRM-13-PP	RX Multicoupler	138-225		•			Rack/Cavity	RX	BNC / N F
XRM-38-PP	RX Multicoupler				300-512		Rack/Cavity	RX	BNC / N F
XRM-80-PP	RX Multicoupler					806-896	Rack/Cavity	RX	BNC / N F
XRM-90-PP	RX Multicoupler					896-960	Rack/Cavity	RX	BNC / N F
90-FF-PP	RX Multicoupler				•	•	19″ Rack Mt	RX	N Female



Model	Filter Type	Other Frequency (MHz)	118- 136 MHz	138- 174 MHz	406- 512 MHz	746- 960 MHz	Cavity / Mounting	Power Watts	Connector
TTA-FF-00	TTA Amplifier			•	•	•	N/A	RX	N Female
21-FF-PP	Single Isolators			•	•	•	N/A	RX	N Female
22-FF-PP	Dual Isolators			•	•	•	N/A	100	N Female
41-FF-PP	Single Isolators			•	•	•	N/A	150-250	N Female
42-FF-PP	Dual Isolators			•	•	•	N/A	150-250	N Female
45-05-PP	RF Loads	5-1000	•	•	•	•	N/A	5-250	N Male
HTC-13 Combiner	Hybrid Combiner			•			19" Rack Mt	100	N Female
HTC-40 Combiner	Hybrid Combiner				•		19" Rack Mt	100	N Female
HTC-80 Combiner	Hybrid Combiner					806-960	19" Rack Mt	100	N Female
49, 50-FF- YY-XX	Hybrid Coupler			•	•	•	N/A	N/A	N Female
Ceramic Combiner	Star Junction Combiner					•	19" Rack Mt	125	N Female
Ceramic Combiner	X-Pass Combiner					•	19" Rack Mt	125	N Female
XBC-FF-PP	Crossband Coupler	25-175	•	•	•	•	N/A	RX-250	N Female
57-FF-XX	Comblines				•	•	N/A	RX	N Female
46-FF-30- 50	Signal Samplers			•	•	•	N/A	50	N Female
47-FF-XXN	Power Splitters	25-512	٠	•	•	•	N/A	RX	N Female
56-FF-01	Harmonic Filters		•	•	•	•	N/A	150	N Female
66-13-3X- HE	Helical Duplexer			•			19" Rack Mt	150	N Female
66-FF-XX- RE	Re-Entrant Duplexer			•	•		19" Rack Mt	350	N Female
Racks, Hardware	Filter Racks						Racks	N/A	N/A



BAND PASS CAVITY

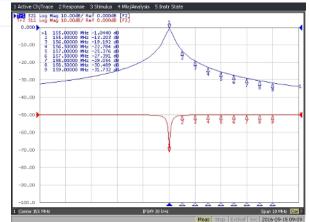
61-FF-7X Series

Our Band Pass filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single units. Selectivity can be determined by the insertion loss of the cavity or by adding additional cavity units as needed. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops and silver-plated tuning rods. Every cavity is equipped with coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss

Electrical Specifications	61-11-71	61-14-71	61-38-71	61-76-71
Frequency Range, MHz (in splits)	108-136	138-174	380-512	764-960
Frequency Spacing Min.	Р	lease Refer to	Typical Curv	es
Cavity Diameter, in	6.625	6.625	6.625	6.625
Continuous Power Input, Watts (Dependent on insertion Loss)	150	150	150	150
Connectors	N Female	N Female	N Female	N Female
Insertion Loss. dB		0.6-	1.5	
Reject Attenuation	Р	lease Refer to	Typical Curv	es
VSWR	1.22:1	1.22:1	1.22:1	1.22:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	61-11-71	61-14-71	61-38-71	61-76-71
Maximum length, in	40	35	20.5	20.7
Weight, lbs	18	15	10	10







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PASS-REJECT CAVITY

62-FF-7X Series

Our Pass-Reject filters are designed to pass a frequency band and reject a narrow band of frequencies. They provide more attenuation than our standard bandpass type cavities. These cavities can reject frequencies on either the high or low side of the pass frequency. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

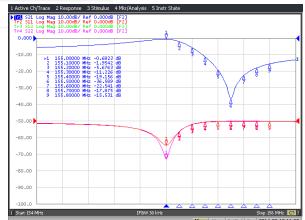
- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss

Electrical Specifications	62-11-71	62-14-71	62-38-71	62-76-71
Frequency Range, MHz (in splits)	108-136	138-174	380-512	764-960
Frequency Spacing Min.	F	Please Refer t	o Typical Cur	ves
Cavity Diameter, in	6.625	6.625	6.625	6.625
Continuous Power Input, Watts (Dependent on insertion Loss)	300	300	300	150
Connectors	N Female	N Female	N Female	N Female
Insertion Loss. dB		0.6	5-1.5	
Reject Attenuation	F	Please Refer t	o Typical Cur	ves
VSWR	1.22:1	1.22:1	1.22:1	1.22:1
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	62-11-71	62-14-71	62-38-71	62-76-71



Mechanical Specifications	62-11-71	62-14-71	62-38-71	62-76-71
Maximum length, in	40	35	20.5	20.7
Weight, lbs	18	15	10	10
* Cool and the form and a divertised	1 Activ	e Ch/Trace 2 Response 3 Stimulus		

* See appendix for ordering information (Page 225)





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NOTCH CAVITY

63-FF-7X Series

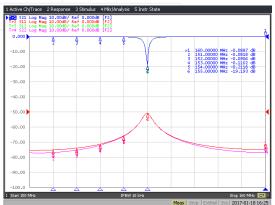
Our Notch filters are designed to reject one narrow band of frequencies, while letting all others pass in the operating band. They provide additional isolation by eliminating close adjacent frequencies. The notch cavities can be cascaded or added to one another in order to sharpen the attenuation of the rejection curve. These cavities can be used individually or in multiples. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- **Temperature Compensation** •
 - 0 **Ensures Frequency Stability**
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss 0

Electrical Specifications	63-11-71	63-14-71	63-38-71	63-76-71
Frequency Range, MHz (in splits)	108-136	138-174	380-512	764-960
Frequency Spacing Min.	Please Refer to Typical Curves			
Cavity Diameter, in	6.625	6.625	6.625	6.625
Continuous Power Input, Watts (Dependent on insertion Loss)	150	150	150	150
Connectors	N Female	N Female	N Female	N Female
Insertion Loss. dB	0.6-1.5			
Reject Attenuation	Ple	ease Refer to	Typical Curv	res
VSWR	1.22:1	1.22:1	1.22:1	1.22:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	63-11-71	63-14-71	63-38-71	63-76-71
Maximum length, in	40	35	20.5	20.7
Weight, lbs	18	15	10	10



* See appendix for ordering information (Page 226)





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XMF MULTICOUPLERS

VHF, UHF, & 700/800/900 MHz, Expandable, Bandpass, Multicoupler Filters

The XMF (Expandable, Bandpass, Multicoupler, Filter) system is a unique transmit/receive multi-coupler. Each channel consists of one, two, or three bandpass filters in combination with an exclusive notch filter design. This enables system expansion without modification to the existing system channels as long as applicable selectivity standards for minimum channel spacing are met.

This unique notch-filter approach provides a junction between channels, allowing channel frequencies to pass freely to or from antennas, while diverting all other channel frequencies to the pass-through antenna line terminal. This characteristic is field-tunable over specified bands of operation without any alterations in the configuration.

Channels may be interconnected with any convenient cable length. There is also no frequency order of interconnection required. The only requirement is that the minimum spacing for VHF is 0.8 MHz and for UHF is 2 MHz.

Our XMF channels are supplied with mounting hardware for wall or rack mounting. The individual cavities are mounted with stainless steel strap clamps, and two horizontal mounting bars. In either case, it may be located at a convenient location for rack or wall applications. Horizontally-spaced mounting holes are the standard 19" EIA rack spacing for on the wall and rack mounting.

For additional information on our X-Pass, Multicouplers, Duplexers, Pass-Reject, Bandpass, or Notch filters, contact our Technical Support team at team at sales@comprodcom.com.





XMF BAND PASS MULTICOUPLER VHF

VHF 60-FF-XP Series 4"x 4"

Our Bandpass VHF Multicoupler filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or additional units. Selectivity can be determined by the insertion loss of the cavity or by adding cavity units as required. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

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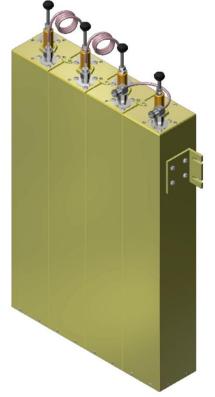
- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops

 $(H \times W \times D)$

Weight, lbs (kg)

• Each cavity has a calibration index to reference insertion loss

Electrical Specifications	60-FF-43
Frequency Range, MHz (in splits)	138-174
Frequency Spacing Min. MHz	2
Cavity Dimensions, in (W x L)	4 x 4
Continuous Power Input, Watts	150
Connectors	N Female
Insertion Loss, dB	3.4
Channel Isolation, dB	See Typical Curves
VSWR	1.5:1
Temperature ^o C	-40 to +60
Mechanical Specifications	60-FF-43
Maximum length, in	34 x 19 x 4



* See appendix for ordering information (Page 226)



XMF BAND PASS MULTICOUPLER VHF

VHF 60-FF-XP Series 7"

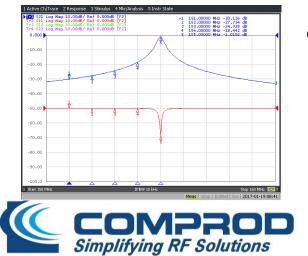
Our Bandpass VHF Multicoupler filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or additional units. Selectivity can be determined by the insertion loss of the cavity or by adding cavity units as required. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss

Electrical Specifications	60-14-71	60-FF-72	60-FF-73
Frequency Range, MHz (in splits)	138-174	138-174	138-174
Frequency Spacing Min. MHz	0.8	0.8	0.8
Cavity Diameter, in	6.625	6.625	6.625
Continuous Power Input, Watts	90-400	90-400	90-400
Connectors	N Female	N Female	N Female
Insertion Loss, dB	0.6-1.5	1.2-3.2	1.8-5.0
Channel Isolation, dB	S	See Typical Curve	es
VSWR	1.5:1	1.5:1	1.5:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	60-14-71	60-FF-72	60-FF-73
Maximum length, in (H x W x D)	34 x 19 x 7	34 x 19 x 16.5	34 x 19 x 16.5
Weight, lbs (kg)	30 (13.6)	36.3 (16.5)	44 (20)

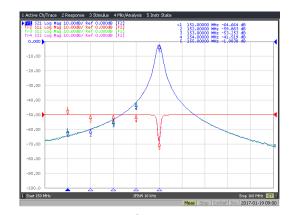


* See appendix for ordering information (Page 226)









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XMF BAND PASS MULTICOUPLER UHF

UHF 60-FF-XP Series 4"x 4"

Our Bandpass, UHF, Multicoupler, filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or additional units. Selectivity can be determined by the insertion loss of the cavity or by adding cavity units as needed. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning applications.

- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - o Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - o Each cavity has a calibration index to reference insertion loss

Electrical Specifications	60-FF-43
Frequency Range, MHz (in splits)	380-512
Frequency Spacing Min. MHz	2
Cavity Dimensions, in (W x L)	4 x 4
Continuous Power Input, Watts	150
Connectors	N Female
Insertion Loss, dB	3.4
Channel Isolation, dB	See Typical Curves
VSWR	1.5:1
Temperature ^o C	-40 to +60
Mechanical Specifications	60-FF-43
Maximum length, in (H x W x D)	18.5 x 19 x 4
Weight, lbs (kg)	13 (5.9)



* See appendix for ordering information (Page 226)



XMF BAND PASS MULTICOUPLER UHF

UHF 60-FF-XP Series 7"

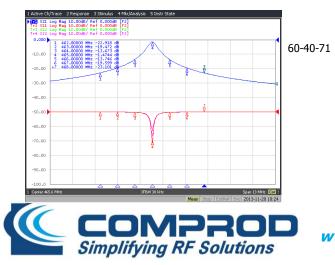
Our Bandpass, UHF, Multicoupler, filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or additional units. Selectivity can be determined by the insertion loss of the cavity or by adding cavity units as needed. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning applications.

- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss

Electrical Specifications	60-38-71	60-FF-72	60-FF-73
Frequency Range, MHz (in splits)	380-512	380-512	380-512
Frequency Spacing Min. MHz	0.8	0.8	0.8
Cavity Diameter, in	6.625	6.625	6.625
Continuous Power Input, Watts	80-300	80-300	80-300
Connectors	N Female	N Female	N Female
Insertion Loss, dB	0.6-1.5	1.2-3.0	1.8-5.0
Channel Isolation, dB		See Typical Cur	ves
VSWR	1.5:1	1.5:1	1.5:1
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	60-38-71	60-FF-72	60-FF-73
Maximum length, in (H x W x D)	16 x 19 x 7	16 x 19 x 16.5	16 x 19 x 16.5
Weight, lbs (kg)	18 (8.6)	26 (11.8)	32 (15.2)



* See appendix for ordering information (Page 227)





PASS-REJECT DUPLEXER

66-FF-74 and 66-FF-76

Our Pass-Reject Duplexer filters are designed for quick and easy installations. These filters are designed for the combination of two frequencies requiring extra isolation or can be used as efficient pre- selectors. They are available in either 4 or 6 cavity configurations if higher levels of isolation are required. Selectivity can be determined by the field adjustable capacitors. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

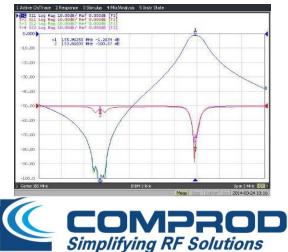
66-13-74

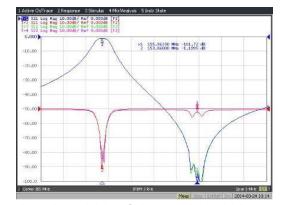
- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - o Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - Each cavity has a calibration index to reference insertion loss

Electrical Specifications	66-FF-74	66-FF-76	66-FF-74
Frequency Range, MHz	138-174	138-174	380-512
Frequency Spacing Min. MHz	0.5	0.3	1.5
Cavity Diameter, in	6.625	6.625	6.625
Continuous Power Input, Watts	400	400	350
Connectors	N Female	N Female	N Female
Insertion Loss, dB	1.5	2.2	1.5
Channel Isolation, dB	85	95	90
VSWR	1.22:1	1.22:1	1.22:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	66-FF-74	66-FF-76	66-FF-74
Maximum length, in (H x W x D)	34 x 19 x 16.5	34 x 19 x 33	18.5 x 19 x 16.5
Weight, lbs (kg)	44 (20)	90 (40)	32 (15.2)



* See appendix for ordering information (Page 227)





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 Fax: 1.800.554.1033

2-INCH CAVITY PASS-REJECT DUPLEXERS

66-FF-2P Series 2" Cavity Pass-Reject Duplexers

Our 2" base station duplexers are ideal for compact high isolation installations. These filters are designed for the combination of two frequencies that require extra isolation, or they can be used as efficient preselectors. Available in either 4 or 6 cavity configurations if higher levels of isolation are required. Selectivity can be determined by the field adjustable capacitors. Each cavity is temperature compensated for operation between -40°C to +60 °C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods.

- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems



Electrical Specifications	66-13-24	66-14-24	66-13-26	66-14-26
Frequency Range, MHz	138-150	148-174	138-150	148-174
Frequency Spacing Min.	4.5	4.5	3.0	3.0
Cavity Number	4	4	6	6
Cavity Diameter, in	2.0	2.0	2.0	2.0
Continuous Power Inputs, Watts	100	100	100	100
Connectors (Equipment/Antenna)	BNC/N-F	BNC/N-F	BNC/N-F	BNC/N-F
Insertion Loss, dB (maximum)	1.5	1.5	1.5	1.5
Channel Isolation, dB	70	70	80/90	80/90
VSWR	1.3:1		1.3:1	
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	66-13-24	66-14-24	66-13-26	66-14-26
Maximum length, in (H x W x D)	5.25 x 19 x 7.25 5.25 x 19 x 7.25			9 x 7.25
Mounting	19" Rack Mount			

These duplexers are available in other frequencies and configurations. Please call our technical support for additional models.





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4-INCH CAVITY PASS-REJECT DUPLEXERS

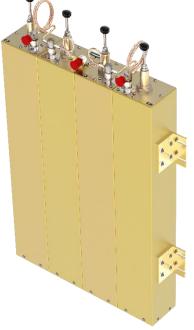
66-FF-44 Series (4) 4" Cavity Duplexers

These 4" base station duplexers are ideal for high power, close frequency separation installations. These filters are designed for combining two frequencies or they can be used as efficient pre-selectors. If higher levels of isolation are required, please consider using 6 cavity configurations. Selectivity can be determined by the field adjustable capacitors. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods.

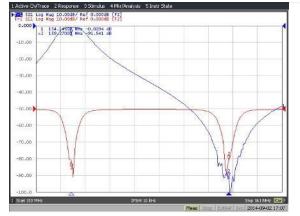
66-13-44 (VHF)

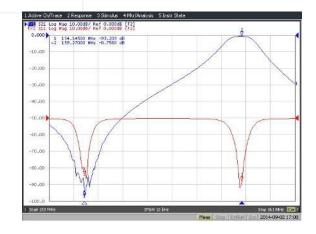
- Temperature Compensation
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems

Electrical Specifications	66-13-44	66-FF-44	66-FF-44	
Frequency Range, MHz	138-174	380-512	746-960	
Frequency Spacing Min. MHz	0.5	0.3	1.5	
Cavities, Diameter, in	(4) - 4" Square	(4) - 4" Square	(4) - 4" Square	
Continuous Power Input, Watts	350	350	350	
Connectors	N Female	N Female	N Female	
Insertion Loss, dB (maximum)	1.5	0.8	0.8	
Channel Isolation, dB	70	75	90	
VSWR	1.2:1	1.2:1	1.2:1	
Temperature °C	-40 to +60	-40 to +60	-40 to +60	
Mechanical Specifications	66-13-44	66-FF-44	66-FF-44	
Maximum length, in (H x W x D)	31 x 19 x 4	4 x 19 x 15	4 x 19 x 12	
Weight, lbs (kg)	30 (13.6)	18 (8.2)	16 (7.3)	
Mounting	19" Rack Mount			



* See appendix for ordering information (Page 227)







4-INCH CAVITY PASS-REJECT DUPLEXERS

66-FF-46 Series (6) 4" Cavity Duplexers

These 6-cavity 4" base station duplexers are ideal for high power close frequency separation installations. These filters are designed for the combination of 2 frequencies that require extra isolation or they can be used as an efficient pre-selector. If higher levels of isolation are required, please consider using the 8-cavity configuration. Selectivity can be determined by the field adjustable loops. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods.

66-40-46 (UHF)

- **Temperature Compensation**
 - Ensures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems 0



Electrical Specifications	66-13-46	66-FF-46	66-FF-46			
Frequency Range, MHz	138-174	380-512	746-960			
Frequency Spacing Min. MHz	0.5	3.0	3.6			
Cavities, Diameter, in	(6) - 4" Square	(6) - 4" Square	(6) - 4" Square			
Continuous Power Input, Watts	350	350	350			
Connectors	N Female	N Female	N Female			
Insertion Loss, dB (maximum)	2.1	1.2	1.2			
Channel Isolation, dB	85	100	85			
VSWR	1.2:1	1.2:1	1.2:1			
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60			
Mechanical Specifications	66-13-46	66-FF-46	66-FF-46			
Maximum length, in (H x W x D)	31 x 19 x 8	8 x 19 x 15	8 x 19 x 12			
Weight, lbs (kg)	45 (20.25)	27 (12.15)	24 (10.8)			
Mounting	19" Rack Mount					

* See appendix for ordering information (Page 227)



Simplifying RF Solutions



138-960 MHz

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4-INCH CAVITY MOBILE DUPLEXERS

4 Cavity Standard Version

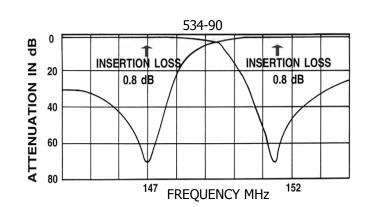
Our line of mobile duplexers features compact size, low loss and temperature compensation over the range of -40°C to +60°C. The use of extruded aluminum cavities and solid- shield copper-jacketed inter-cabling ensures excellent mechanical and electrical stability.

All units are adjustable in the field by qualified personnel and rated at a maximum of 50 Watts with a maximum VSWR of 1.5:1 over the entire tuning range.

BNC connectors are standard. Variations on connectors and mountings are available by special order. For N female connectors, add suffix N to model number (Ex. 534-90-N).

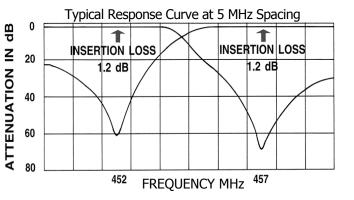
Electrical Specifications	534-90	504-90	
Frequency Range, MHz (in splits)	144-174	406-	470
Frequency Spacing Min. MHz	4.5	5.0	10.0
Continuous Power Rating, Watts	50	50	50
Insertion Loss, dB: TX to Antenna	0.8	1.2	0.8
Insertion Loss, dB: RX to Antenna	0.8	1.2	0.8
Isolation, dB: TX noise suppression at RX frequency	60	50 60	
Isolation, dB: TX isolation at TX frequency	60	50	60
Maximum VSWR	1.5:1	1.5:1	
Impedance, Ohms	50	50	0
Connector Type, Female	BNC / N-F	BNC	/ N-F
Temperature ^o C	-40 to +60	-40 to	+60
Mechanical Specifications	534-90	504-90	
Dimensions H x W x D, in. (mm)	1-1/4 x 4-1/8 x 7-5/8 (31.8 x 105 x 194)	1-1/4 x 4-1/8 x 8-3/4 (31.8 x 105 x 222)	
Weight, lbs (kg)	1.5 (0.7)	2 (0).9)
* ~	-		

* See appendix for ordering information (Page 227)





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504-90

6-CAVITY MOBILE DUPLEXERS

6 Cavity Standard Version

Our line of mobile duplexers features compact size, low loss and temperature compensation over the range of -40°C to +60°C. The use of extruded aluminum cavities and solid-shield copper-jacketed inter-cabling ensures excellent mechanical and electrical stability.

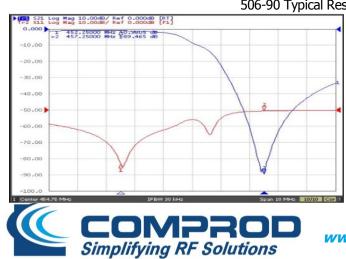
All units are adjustable in the field by qualified personnel and rated at 50 watts continuous duty with a maximum VSWR of 1.5: 1 over the entire tuning range.

BNC connectors are standard. Variations on connectors and mountings are available by special order. For N female connectors, add suffix N to model number (Ex. 536-90-N)

Electrical Specifications	536-90	506-90	
Frequency Range, MHz (in splits)	144-174	406-	512
Frequency Spacing Min. MHz	4.5	5.0	10.0
Continuous Power Rating, Watts	50	50	50
Insertion Loss, dB: TX to Antenna	1.2	1.4	1.2
Insertion Loss, dB: RX to Antenna	1.2	1.4	1.2
Isolation, dB: TX noise suppression at RX frequency	80	75	80
Isolation, dB: TX isolation at TX frequency	80	75	80
Maximum VSWR	1.5:1	1.5:1	
Impedance, Ohms	50	50)
Connector Type, Female	BNC / N-F	BNC /	N-F
Temperature ^o C	-40 to +60	-40 to	+60
Mechanical Specifications	536-90	506-90	
Dimensions H x W x D, in. (mm)	1-1/4 x 6-3/16 x 7-5/8 (31.8 x 157 x 222)	1-1/4 x 6-3/16 x 7-5/8 (31.8 x 157 x 222)	
Weight, lbs (kg)	2 (0.9)	3.5 (1.7)
* See appendix for ordering information (Page 22)	2)		

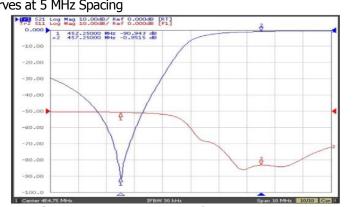


* See appendix for ordering information (Page 228)



506-90 Typical Response Curves at 5 MHz Spacing

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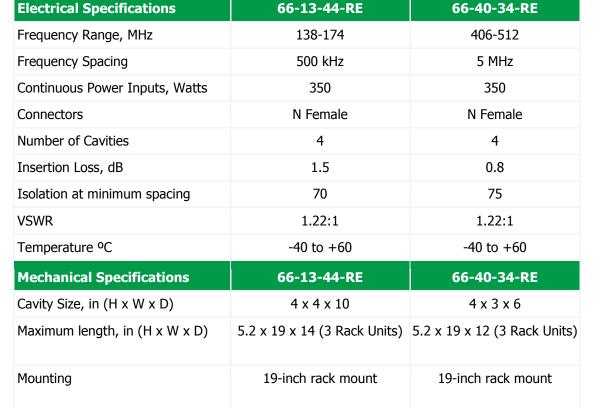
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BASE STATION DUPLEXERS

VHF and UHF Re-Entrant Base Station Duplexers

These Comprod base station duplexers use four or six cavities. They are ideal for compact high-performance applications. They are designed to cover either the VHF frequency band. These filters are designed for the combination of two frequencies that require extra isolation, or they can be used as an efficient preselector. An eight-cavity configuration is also available for a higher level of isolation and selectivity.

- N Female connectors on the input and output
- Can be retuned in the field
- These duplexers are available in other frequencies and configurations.
 Please call our technical support for additional models.







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138-174 & 406-512 MHz



X-PASS

Expandable Multicoupler/Combiner Filters

The X-Pass system is a proven innovative family of filter design technology. Possessing the properties of a combiner, but having the expandability of a multicoupler, our X-Pass filters are one of the most versatile and re-usable filtering systems available on the market.

The X-Pass Transmitter Combiner Receiver Multicoupler has superior expandability compared with the fixed star junction configuration. The X-Pass system can be expanded one channel at a time for up to 21 channels with factory tuned, easy to install expansion channel assemblies. Expansion can be completed easily, without modifying the existing system, as easy as adding one or more channels on top of the existing system (daisy chain).

The X-Pass system is a broadband design allowing the system to span entire frequency ranges by using the properties of the X-Pass combiner for close frequency spacing and the X-Pass multicoupler properties for normally spaced channels. The X-Pass system can span the full 138-174 MHz, 406-512 MHz or 806-960 MHz frequency bands. When using the 6.625" cavities, the TX-TX separation in VHF can be as close as 75 kHz of frequency separation, or 50 kHz of separation when using 10" cavities.

The X-Pass system has the advantage of being extremely flexible to configure. With the ability to combine Bandpass, Pass-Reject, or Notch loops for 6.625" and 10" cavity filters, once-difficult complex operating requirements can be resolved with a customized design. This allows the X-Pass system to have unlimited combinations that can be integrated using multi-cavity configurations while retaining the expandability of the combiner properties for close frequency-spaced channels using 6.625" and 10" cavities. The system can also be a combination of a combiner for close frequency-spaced channels while encompassing the expandability of a standard multicoupler that can be integrated with standard Bandpass, Notch, and Pass-Reject filter combinations. All of our X-Pass systems come fully assembled, tested and ready for Plug-and-Play installations.

The X-Pass system has one extra beneficial aspect - the optional X-Pass Rack. With this unique rack design, certain systems can take up to 50 % less space than other systems that are in a 19" rack. By being able to mount all of the cavities horizontally, the installer has the ability to expand one channel on top of another in no particular order, and not having the physical obstacles of mounting a star-junction type configuration in a rack. The X-Pass system can save valuable installation space, and make efficient use of the rack space for future expansion projects.

For additional information on our X-Pass, Multicouplers, Duplexers, Pass-Reject, Bandpass, or Notch filters, contact our Technical Support team: Sales@comprodcom.com



X-PASS CAVITY

68-FF-7X Series

Our X-Pass filters are designed for flexible, close frequency systems. Each cavity has both a Reject and a Pass band curve. These individual cavities are used to add channels to existing systems. Available in single units, they can be combined with Bandpass, Notch, and Pass-Reject cavities for added protection and isolation. Selectivity can be determined by the insertion loss of the cavity or by adding Bandpass cavity units to this expansion channel as required. Each cavity is temperature compensated for operation between -40°C to +60°C. Each cavity has a gold Alodine finish, silver-plated loops, and silver-plated tuning rods. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

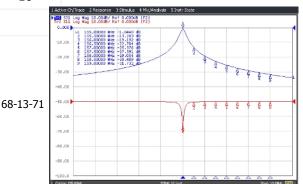
- **Temperature Compensation** .
 - Ensures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- Adjustable Loops
 - o Each cavity has a calibration index to reference insertion loss

Electrical Specifications	68-11-71	68-13-71	68-38-71	68-74-71
Frequency Range, MHz	108-136	132-174	380-512	746-960
Frequency Spacing Min.	Ple	ase Refer to	Typical Cur	ves
Cavity Diameter, in	6.625	6.625	6.625	6.625
Continuous Power Input, Watts (Dependent on insertion Loss)	300	300	300	150
Connectors	N Female	N Female	N Female	N Female
Insertion Loss. dB		0.6	-1.5	
Reject Attenuation	Ple	ase Refer to	Typical Cur	ves
VSWR	1.22:1	1.22:1	1.22:1	1.22:1
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	68-11-71	68-13-71	68-38-71	68-74-71



Mechanical Specifications	68-11-71	68-13-71	68-38-71	68-74-71
Maximum length, in	31.5	26	11.5	13
Weight, lbs	18	15	10	10

* See appendix for ordering information (Page 228)





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EXPANDABLE TRANSMIT COMBINER

XTC-Expandable Transmit Combiner Series—7" Cavity

Our Expandable Transmit Combiners can combine from 1 to 21 channels. The XTC series of filters incorporates expandability, close frequency spacing and some of the lowest insertion losses in the industry. Using a 6.625" cavity, the XTC can easily support 75 kHz TX-TX spacing or 50 kHz spacing when using 10" cavities. Each cavity is constructed using a gold Alodine finish, silver-plated loops, silver-plated connectors and an internal tuning plunger. Additionally, cavities are temperature compensated for operation between -40°C to +60°C. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- Flexible and expandable design, From 1-21 channel capacity
- Expandable: 1 or more additional channels at a time, Re-configurable equipment .
- 28 MHz to 254 MHz of operating bandwidth .

- Temperature compensation, Ensures frequency stability •
- High attenuation Minimizes desense and interference

Electrical Specifications	XTC-11-7ND	XTC-13-7ND	XTC-22-7ND	XTC-38-7ND	XTC-76-7ND
Frequency Range, MHz	108-136	132-174	215-300	380-512	746-1000
Bandwidth, MHz	28	42	85	85	254
Number of Channels	2 to 12				
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., kHz	75	75	100	125	250
Isolation Min., TX-TX, dB	70	70	70	80	80
Isolation Min., Ant-TX, dB	60	60	60	70	70
Max. Insertion Loss Per Chan., dB	3.6 to 5.6	4.3 to 6.7	4.1 to 5.8	4.1 to 6.4	3.1 to 5.5
Continuous Power Input, Watts	150	150	150	150	150
Connectors	N Female				
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature, °C	-40 to +60				
Mechanical Specifications					

Mechanical Specifications						
Height, in (H x W X D) (mm)	86	5.5 x 24 x 40.25	(2197 x 610 x 2	1022) (In X Rac	k)	
Weight, lbs	DEPENDS ON SET-UP AND RACK DESIGN					
Mounting		19	-inch rack mou	nt		

* See appendix for ordering information (Page 228)



108-1000 MHz



EXPANDABLE TRANSMIT COMBINER

XTC-Expandable Transmit Combiner Series—10" Cavity

Our Expandable Transmit combiners can combine from 1 to 21 channels. The XTC series of filters incorporates expandability, close frequency spacing and some of the lowest insertion losses in the industry. Using a 6.625'' cavity, the XTC can easily support 75 kHz TX-TX spacing or 50 kHz spacing while using 10'' cavities. Each cavity is constructed using a gold Alodine finish, silver-plated loops, silver-plated connectors and internal tuning plunger. Additionally, cavities are temperature compensated for operation between -40°C to +60°C. Every cavity is equipped with both coarse and fine-tuning rods for quick and easy field or lab re-tuning.

- Flexible and expandable design, From 1-21 channel capacity
- Expandable: 1 or more additional channels at a time, Re-configurable equipment
- 28 MHz to 132 MHz of operating bandwidth
- Temperature compensation, Ensures frequency stability
- High attenuation, Minimizes desense and interference
- Ultra-low insertion losses, Low coupling and bridging losses
- Continuous high-power handling capability, 150 watts 24/7

Electrical Specifications	XTC-11-0ND	XTC-13-0ND	XTC-22-0ND	XTC-38-0ND				
Frequency Range, MHz	108-136	132-174	215-300	380-512				
Bandwidth, MHz	28	42	85	132				
Number of Channels	2 to 12	2 to 12	2 to 12	2 to 12				
Cavity Diameter, in	10	10	10	10				
Min. Channel Sep., kHz	50	50	75	75				
Isolation Min., TX-TX, dB	70	70	70	80				
Isolation Min., Ant-TX, dB	60	60	60	70				
Max. Insertion Loss Per Chan., dB	4.1 to 5.7	4.1 to 6.1	4.2 to 6.2	4.3 to 7.1				
Continuous Power Input, Watts	150	150	150	150				
Connectors	N Female	N Female	N Female	N Female				
VSWR	1.22:1	1.22:1	1.22:1	1.22:1				
Temperature, ^o C	-40 to +60	-40 to +60	-40 to +60	-40 to +60				
Mechanical Specifications								
Height, in (H x W X D) (mm)	86.5 x 24 x 40.25 (2197 x 610 x 1022) (In X Rack)							
Weight, lbs	DEPE	DEPENDS ON SET-UP AND RACK DESIGN						
Mounting		19-inch ra	ack mount					
* See appendix for ordering information (Page 228)								

* See appendix for ordering information (Page 228)



108-512 MHz



EXPANDABLE TX COMBINER 80 SERIES

X-PASS EXPANDABLE TX COMBINER 80 SERIES

Our 80 Series 8" Cavity Transmit Combiner features X-Pass, plug-and-play technology and is fully expandable and reconfigurable. These combiners are designed to offer engineers and technicians many options when designing or upgrading a site.

Electrical Specifications	8N-FF-8XILPI	•	The second second		
Frequency Range, MHz	Call for Information		(/	1 5 E 1 1	A 50:
Frequency Separation, kHz	200 min	-	8		
Number of Channels	1 to 6+			1000	1 4 4 4 A
Isolation, dB					
TX to TX @ 200k Sep.	(S)40 (D)70	UHF	100-WATT TY	PICAL INSE	RTION
ANT to TX @ 600k Sep.	(S)30 (D)60	Number of	Frequ	ency Separatio	on (kHz)
Insertion Loss	See Insertion Loss Chart	Channels	200	400	600 and +
TX input Return Loss, dB	1.25:1 min	2	4	3	2.8
Power / Channel, Watts	Low=60 / High=100	3	4.3	3.2	2.85
Mechanical Specifications		4	4.6	3.3	2.95
Construction / Finish	Aluminum/Gold/Black	5	4.8	3.4	3
Input Connector	N-Female	6	5.1	3.5	3.15
Mounting	EIA standard 19"	UHF 60-WATT TYPICAL INSERTION LOSS, dB			
Temperature Range, °C	-30 to +60	(TX to TX Sepai unit - that spaci			use a 100-Watt
Dimensions		Number of Frequency Separation (kHz)		on (kHz)	
Cavity Diameter, in (mm)	8 (203)	Channels	200	400	600 and +
Width, in (mm)	19 (483)	2	Use 100W	3	2.8
Depth, in (mm)	UHF 16.5 (419)	3		3.2	2.85
Height, in (mm)	8.7 (221)	4		3.3	2.95
Number of Channels	Rack Units Weight lbs. (kg)	5		3.4	3
1	5 11 (05)	6		3.5	3.15
2	5 22 (10)	700-900	MHz 100-WAT	T TYPICAL I	NSERTION
3	10 33 (15)	Number of	Frequ	ency Separatio	on (kHz)
4	10 44 (20)	Channels	200	500	800 and +
5	15 55 (25)	2	3.5	2.5	2.2
6	15 66 (30)	3	4.2	3	2.4
		4	4.5	3.4	2.5
		5	4.8	3.6	2.6





XTR

EXPANDABLE, TRANSMIT-RECEIVE, MULTICOUPLER

Our X-Pass technology can combine your TX & RX frequencies onto the same antenna. Our System Design Department can integrate any combination of frequency, and close frequency spacing, minimizing the system's physical space, and maximizing the efficiency of your system.

Each of our system designs comes with a full intermodulation study that examines the Intermodulation products followed with a customized solution specific to your clients needs. There are no off-the-shelf solutions - each system is custom tailored to your exact requirements.

Contact us for a free customized system quotation. TX and RX frequencies will be required.

Here are some design examples:

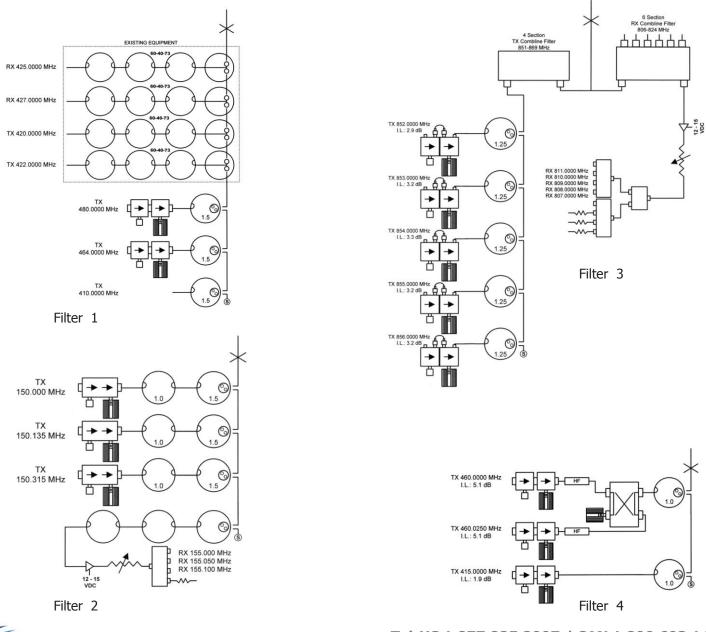


 Image: Simplifying RF Solutions
 Image: Simplifying RF Solutions

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XRM-13-PP Series

Our Expandable Receiver Multicouplers are simple and compact. They are available in 2, 4, 8, 12 and 16 port configurations. This is an affordable means of combining multiple RX frequencies onto the same antenna. We offer three mounting versions: our standard 19" rack, a tray mounted or a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Expandable Receiver Multicoupler has the optional plug-in power supply.

- Design
 - Simple and cost effective
- Mounting
 - 19" rack mount (RM)
 - Cavity mount (CM)
 - Tray mount (TRM)
- Optional 100-240 VAC power supply (PS)

Electrical Specifications	XRM-13-02	XRM-13-04	XRM-13-08	XRM-13-16
Frequency Range, MHz	138-225	138-225	138-225	138-225
Pass Band, MHz	3-8	3-8	3-8	3-8
Number of Channels	2	4	8	16
RX/RX Isolation, dB	23+	23+	23+	23+
Amplifier Gain, dB	18	18	18	18
Amplifier Noise Figure, dB	1.9	1.9	1.9	1.9
Amplifier Bias Voltage, VDC	+13-28	+13-28	+13-28	+13-28
Amplifier Current Draw, mA	130	130	130	130
Nominal Impedance, Ohms	50	50	50	50
Max VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Temperature °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	XRM-13-02	XRM-13-04	XRM-13-08	XRM-13-16
Mounting	RM / CM	RM / CM	RM / CM	RM / CM
Connectors (Optional)	N-F (BNC)	N-F (BNC)	N-F (BNC)	N-F (BNC)
Weight, lbs	5-12	5-12	5-12	5-12

* See appendix for ordering information (Page 229)





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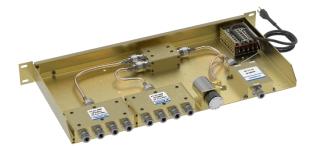
XRM-38-PP Series

Our Expandable Receiver Multicouplers are simple and compact. They are available in 2, 4, 8, 12 and 16 port configurations. This is an affordable means of combining multiple RX frequencies onto the same antenna. We offer three mounting versions: our standard 19" rack, a tray mounted or a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Expandable Receiver Multicoupler has the optional plug-in power supply.

- Design
 - Simple and cost effective
- Mounting
 - 19" rack mount (RM)
 - Cavity mount (CM)
 - Tray mount (TRM)
- Optional 100-240 VAC power supply (PS)

Electrical Specifications	XRM-38- <u>02</u>	XRM-38-04	XRM-38- <u>08</u>	XRM-38- <u>16</u>
Frequency Range, MHz	380-512	380-512	380-512	380-512
Pass Band, MHz	3-10	3-10	3-10	3-10
Number of Channels	2	4	8	16
RX/RX Isolation, dB	23+	23+	23+	23+
Amplifier Gain, dB	18.5	18.5	18.5	18.5
Amplifier Noise Figure, dB	1.9	1.9	1.9	1.9
Amplifier Bias Voltage, VDC	+13-28	+13-28	+13-28	+13-28
Amplifier Current Draw, mA	130	130	130	130
Nominal Impedance, Ohms	50	50	50	50
Max VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Temperature ^o C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	XRM-38-02	XRM-38-04	XRM-38-08	XRM-38-16
Mounting	RM / CM	RM / CM	RM / CM	RM / CM
Connectors (Optional)	N-F (BNC)	N-F (BNC)	N-F (BNC)	N-F (BNC)
Weight, lbs	5-12	5-12	5-12	5-12

* See appendix for ordering information (Page 229)





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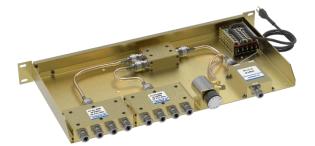
XRM-80-PP Series

Our Expandable Receiver Multicouplers are simple and compact. They are available in 2, 4, 8, 12, 16 and 32 port configurations. This is an affordable means of combining multiple RX frequencies onto the same antenna. We offer three mounting versions: our standard 19" rack, a tray mounted or a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Expandable Receiver Multicoupler has the optional plug-in power supply.

- Design
 - Simple and cost effective
- Mounting
 - 19" rack mount (RM)
 - Cavity mount (CM)
 - Tray mount (TRM)
- Optional 100-240 VAC power supply (PS)

Electrical Specifications	XRM-80-02	XRM-80-04	XRM-80-08	XRM-80-16	XRM-80-32
Frequency Range, MHz	806-896	806-896	806-896	806-896	806-896
Pass Band, MHz	3-18	3-18	3-18	3-18	3-18
Number of Channels	2	4	8	16	32
RX/RX Isolation, dB	23+	23+	23+	23+	23+
Amplifier Gain, dB	19	19	19	19	19
Amplifier Noise Figure, dB	1.9	1.9	1.9	1.9	1.9
Amplifier Bias Voltage, VDC	+13-28	+13-28	+13-28	+13-28	+13-28
Amplifier Current Draw, mA	130	130	130	130	130
Nominal Impedance, Ohms	50	50	50	50	50
Max VSWR	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1
Temperature ^o C	-40 to +60				
Mechanical Specifications	XRM-80-02	XRM-80-04	XRM-80-08	XRM-80-16	XRM-80-32
Mounting	RM / CM				
Connectors (Optional)	N-F (BNC)				
Weight, lbs	5-12	5-12	5-12	5-12	5-12

* See appendix for ordering information (Page 229)





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XRM-90-PP Series

Our Expandable Receiver Multicouplers are simple and compact. They are available in 2, 4, 8, 12, 16 and 32 port configurations. This is an affordable means of combining multiple RX frequencies onto the same antenna. We offer three mounting versions: our standard 19" rack, a tray mounted or a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Expandable Receiver Multicoupler has the optional plug-in power supply.

- Design
 - Simple and cost effective
- Mounting
 - 19" rack mount (RM)
 - Cavity mount (CM)
 - Tray mount (TRM)
- Optional 100-240 VAC power supply (PS)

Electrical Specifications	XRM-90-02	XRM-90-04	XRM-90-08	XRM-90-16	XRM-90-32
Frequency Range, MHz	896-960	896-960	896-960	896-960	896-960
Pass Band, MHz	3-15	3-15	3-15	3-15	3-15
Number of Channels	2	4	8	16	32
RX/RX Isolation, dB	23+	23+	23+	23+	23+
Amplifier Gain, dB	19	19	19	19	19
Amplifier Noise Figure, dB	1.9	1.9	1.9	1.9	1.9
Amplifier Bias Voltage, VDC	+13-28	+13-28	+13-28	+13-28	+13-28
Amplifier Current Draw, mA	130	130	130	130	130
Nominal Impedance, Ohms	50	50	50	50	50
Max VSWR	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1
Temperature ^o C	-40 to +60				
Mechanical Specifications	XRM-90-02	XRM-90-04	XRM-90-08	XRM-90-16	XRM-90-32
Mounting	RM / CM				
Connectors (Optional)	N-F (BNC)				
Weight, lbs	5-12	5-12	5-12	5-12	5-12

* See appendix for ordering information (Page 229)





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EXPANDABLE RECEIVER MULTICOUPLER

Expandable Receiver Multicoupler 90 Series

Our Expandable Receiver Multicoupler provides an affordable means of combining multiple Receiver frequencies onto the same antenna. They are available in 2, 4, 8, 12 and 16 port configurations.

Key features:

- A low noise amplifier provides gain across the frequency band
- Low noise figure and low intermodulation generation
- Features up to 16 ports (24 and 32 port versions are available)
- -30 dB signal sampler port that can also be used to inject a signal

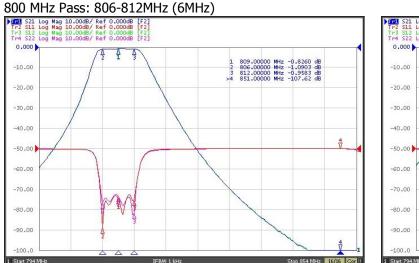


Electrical Specifications		
Frequency Band, MHz	406-512	794-824
Number of output ports	2 to 16 (24 and 32 port versions available)	2 to 16 (24 and 32 port versions available)
Input Preselector Bandwidth Options	2 or 3 MHz Bandwidth 380-512 MHz	794 - 824 MHz, 3/6/12 MHz BW 806 - 821 MHz, 15 MHz BW 806 - 824 MHz, 18 MHz BW 794 - 824 MHz, 30 MHz BW
VSWR	1.5:1	1.5:1
Amplifier Gain, dB	18.5 typical	19 typical
Amplifier Output IP3, dB	+40 Min	+40 Min
Amplifier Noise Figure, dB	1.9 typical	1.9 typical
Manual Attenuation Selection	0 to -10dB in 1 dB steps	0 to -10dB in 1 dB steps
RX to RX Isolation, dB	>20	>20
TX Band Rejection, dB	>40 at 2MHz TX-RX	>80
Connector, Input	N (Female)	N (Female)
Connector, Output	N (Female)	N (Female)
Connector, Signal Sampler	BNC (Female)	BNC (Female)
Power Input, Standard	110/220 VAC 50/60Hz 10W	110/220 VAC 50/60Hz 10W
AC Power Input Connector	Hardwired 3-wire	Hardwired 3-wire
DC Power (optional), VDC	+13-28	+13-28
Mounting	EIA Standard 19" 3 RU	EIA Standard 19" 2 RU
Temperature Range C	-30 to +60 C	-30 to +60 C



EXPANDABLE RECEIVER MULTICOUPLER

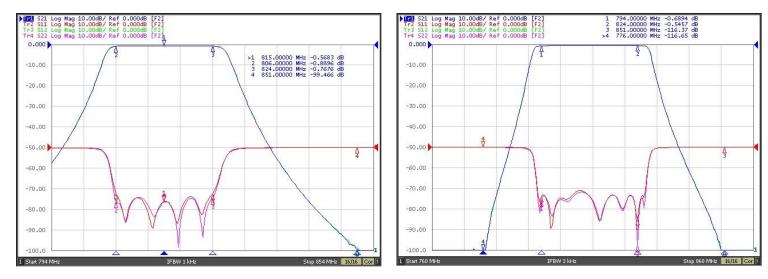
406-824 MHz



B00MHz Pass: 809-821MHz (12MHz)

800MHz Pass: 806-824MHz (18MHz)

800MHz Pass: 794-824MHz (30MHz)





TTA: TOWER TOP AMPLIFIER

Our Tower-Top Amplifier (TTA) systems provide superior receiver system performance and excellent electrical reliability in a rugged, weather-proof design. The tower unit is housed in a seamless cylindrical aluminum housing with a durable finish to repel both weather and solar energy. The aluminum shell connector plate provides much lower electrical resistance than competing stainless steel housings, enhancing the performance of the internal lightning surge protection. A high permeability internal magnetic shield provides protection against damage from lightning-induced magnetic pulses and is many times more effective than a stainless-steel enclosure.

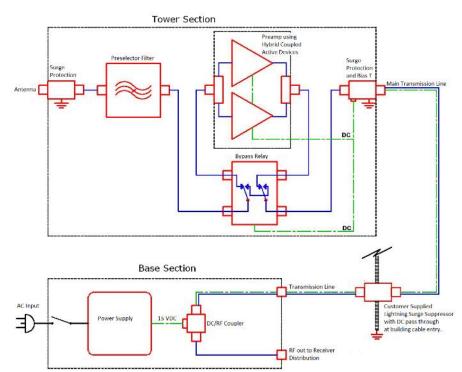
The tower housing has two drain holes to release any water due to condensation build up. RF connections stay weatherresistant longer as a result of the protection provided by a 360° drip- edge. Superior electrical performance starts with a highly selective Combline preselector that provides excellent out-of-band rejection with minimum loss. Our preamplifier uses PHEMT (GaAs FET) device technology to provide low noise performance (1.6dB typical) and high intermodulation immunity (+39 dBm OIP3).

For greater reliability, the preamplifier uses a pair of hybrid -coupled devices to provide amplifier redundancy. This circuit provides useful gain should only one device be operational. The preamp features internal transient suppression that complements lightning surge protection provided on all TTA ports.

In addition to amplifier redundancy, full amplifier bypass capability is provided. A hermetically sealed, high-reliability bypass relay will fully remove the amplifier from the circuit and provide a non-amplified connection from the antenna to keep the system up and running even if the preamplifier totally ceases operation. Bypass mode is activated when DC power to the tower unit is disabled.

The base unit is housed in a 19" rack assembly that includes the power supply and DC injector to send DC (12 V) over the transmission line to operate the tower unit. The base unit has jacks for measurement of tower unit Current using a standard digital multi-meter. Type N connectors provided. Tower unit mounting hardware included.

Building-entry lightning surge suppressor w/DC pass-thru is recommended but not supplied.







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TTA: TOWER TOP AMPLIFIER

Tower Section	TTA-40-00	TTA-70-00	TTA-79-00	TTA-80-00	TTA-90-00
Frequency Range, MHz	UHF (406-512)	794-806	792-824	806-824	896-902
Bandwidth, MHZ	2-3	3, 6, 10, 12	32	18	6
Gain, dB	16-19	16-19	16-19	16-19	16-19
Noise Figure, dB	2-4	2-4	2-4	2-4	3-4
3rd Order Intercept Point, dBm	+40	+40	+40	+40	+40
Connectors	N Female				
Power, VDC	+13-28	+13-28	+13-28	+13-28	+13-28
Housing Diameter, in	16 x 14 x 6	7	7	7	7
Housing Length, in	N/A	21	21	21	21
Finish	Grey Anodize				
Temperature Range, °C	- 40° to +50				
Weight, lbs	45 with clamps				

Base Unit	
Size (H x W x D) in	1.75 x 19 x 6
Finish, Front	Black
Connectors	Transmission Line, RF Output
Connector Type	N Female
Power Input, Standard	110/220 VAC 50/60Hz, 12W
Weight, lbs	5
DC Power (optional), VDC	13-28
Mounting	EIA Standard 19" 1 RU
Temperature Range, C	-0 to +50

* See appendix for ordering information (Page 230)



406-902 MHz

RECEIVER AMPLIFIERS

Models: 58-13-19	(100-225 MHz)
58-40-19	(300-520 MHz)
58-74-19	(700-1000 MHz)

Our line of low noise, medium power robust amplifiers are designed for unconditionally stable performance in professional communications systems. Featuring rugged construction, internal voltage regulator, hybrid-combined redundant amplifier pairs and low pass filters. The amplifiers will provide higher system dynamic range for fixed receiver systems, tower mounted amplifiers, or Bi-Directional in-building repeaters and boosters.

- High Gain, Low Noise Maximum performance with minimum noise.
- Filtering on DC Terminals Greater than 70 dB attenuation from as low as 5 MHz to several GHz

Electrical Specifications	58-13-19	58-40-19	58-74-19
Frequency Range, MHz	100-225	380-520	700-1000
Bandwidth, MHz	125	220	300
Amplifier Type	Low Noise / Medium Power	Low Noise / Medium Power	Low Noise / Medium Power
Typical Gain, dB	19	19	19
Amplifier Noise figure, dB	1.9	1.9	1.9
3rd Order Intercept, dBm	+41	+41	+41
Output 1 dB Compression Point, dBm	25.0	25.0	25.0
Input/output Return loss, dB	-18 Тур.	-18 Тур.	-18 Тур.
Operating Voltage, VDC	12.5-28	12.5-28	12.5-28
Typical DC Current Draw, mA	130	130	130
Standard Connectors (Optional)	N Female	N Female	N Female
Maximum Input Power, dBm	+15	+15	+15
Temperature Range, ℃	-20 to +70	-20 to +70	-20 to +70
Mechanical Specifications	58-13-19	58-40-19	58-74-19
Height, in (mm)	4.375 (111)	4.375 (111)	4.375 (111)
Width, in (mm)	2.5 (63.5)	2.5 (63.5)	2.5 (63.5)
Depth, in (mm) (including Connectors)	0.9375 (23.8)	0.9375 (23.8)	0.9375 (23.8)
Weight, lb (kg)	0.42 (0.187)	0.42 (0.187)	0.42 (0.187)
Finish	Alodine (yellow)	Alodine (yellow)	Alodine (yellow)



LOW POWER SINGLE ISOLATORS

21-FF-PP

Our Isolators are among the best in the industry for blocking the transfer of RF power flow in the opposite direction. Low to medium power, and total reliability are two of the characteristics of these isolators. Used for intermodulation panels, protecting your transmitters from reflected power and providing extra isolation are just a few of the possible applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250-watt combinations, as well as combined with second harmonic filters for Hybrid Combiners (HTCs).

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

Electrical Specifications	21-13-XX	21-40-XX	21-76-XX			
Frequency Range, MHz	138-174	406-512	746-960			
Frequency Split, MHz	4	24	24			
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.	2.5% Cent. Freq.			
Continuous Power Input, Watts	100	100	100			
Connectors	N Female	N Female	N Female			
Output Load Size	5/25/60/100/150	5/25/60/100/150	5/25/60/100/150			
Reverse Isolation, Db	30	30	30			
Typical Insertion Loss, dB	0.45	0.35	0.25			
VSWR	1.22:1	1.22:1	1.22:1			
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60			
Mechanical Specifications	21-13-XX	21-40-XX	21-76-XX			
Dimensions, in (H x W x D)	3.94 x 3.75 x 1.78	4.19 x 3.99 x 1.78	5.63 x 3.15 x 1.84			
Weight, lbs	1.40	1.41	1.32			
Mounting	Cavity / Plate / Cabinet / Rack Mount Are All Available					





LOW POWER DUAL ISOLATORS

22-FF-PP

Our Isolators are among the best in the industry for blocking the transfer of RF power flow in the opposite direction. Low to medium power and total reliability are two of the characteristics of these isolators. Used for intermodulation panels, protecting your transmitters from reflected power, and providing extra isolation are just a few of the possible applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250-watt combinations, and combined with second harmonic filters for Hybrid Combiners (HTCs).

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - o Physical size and materials used maximize the performance across the operating band

Electrical Specifications	22-13-XX	22-40-XX	22-76-XX			
Frequency Range, MHz	138-174	406-512	746-960			
Frequency Split, MHz	4	24	24			
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.	2.5% Cent. Freq.			
Continuous Power Input, Watts	100	100	100			
Connectors	N Female	N Female	N Female			
Output Load Size	5/25/60/100/150	5/25/60/100/150	5/25/60/100/150			
Reverse Isolation, Db	50	50	50			
Typical Insertion Loss, dB	0.9	0.7	0.5			
VSWR	1.22:1	1.22:1	1.22:1			
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60			
Mechanical Specifications	22-13-XX	22-40-XX	22-76-XX			
Dimensions, in (H x W x D)	3.94 x 6.25 x 1.78	4.19 x 8.75 x 1.78	5.63 x 6.13 x 1.84			
Weight, lbs	2.6	2.8	2.75			
Mounting	Cavity / Plate / Cabinet / Rack Mount Are All Available					





HIGH POWER SINGLE ISOLATORS

41-FF-PP

Our Isolators are among the best in the industry for blocking the transfer of RF power flow in the opposite direction. High power and total reliability are two of the characteristics of these isolators. Used for intermodulation panels, protecting your transmitters from reflected power, and providing extra isolation are just a few of the possible applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250-watt combinations, and combined with second harmonic filters for Hybrid Combiners (HTCs).

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

Electrical Specifications	41-13-XX	41-40-XX	41-76-XX			
Frequency Range, MHz	138-174	406-512	746-960			
Frequency Split, MHz	36	24	24			
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.	2.5% Cent. Freq.			
Continuous Power Input, Watts	150	250	150			
Connectors	N Female	N Female	N Female			
Output Load Size	5/25/60/100/150	5/25/60/100/150	5/25/60/100/150			
Reverse Isolation, Db	30	30	30			
Typical Insertion Loss, dB	0.45	0.45	0.25			
VSWR	1.22:1	1.22:1	1.22:1			
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60			
Mechanical Specifications	41-13-XX	41-40-XX	41-76-XX			
Dimensions, in (H x W x D)	3.94 x 3.75 x 1.78	4.19 x 3.99 x 1.78	5.63 x 3.15 x 1.84			
Weight, lbs	1.40	1.41	1.32			
Mounting	Cavity / Plate / Cabinet / Rack Mount Are All Available					



HIGH POWER DUAL ISOLATORS

42-FF-PP

Our Isolators are among the best in the industry for blocking the transfer of RF power flow in the opposite direction. High power and total reliability are two of the characteristics of these isolators. Used for intermodulation panels, protecting your transmitters from reflected power, and providing extra isolation are just a few of the possible applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250-watt combinations, and combined with second harmonic filters for Hybrid Combiners (HTCs).

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

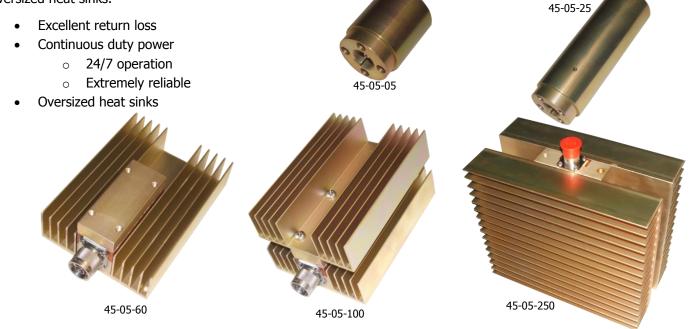
Electrical Specifications	42-13-XX	42-40-XX	42-76-XX			
Frequency Range, MHz	138-174	406-512	746-960			
Frequency Split, MHz	36	24	24			
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.	2.5% Cent. Freq.			
Continuous Power Input, Watts	150	250	150			
Connectors	N Female	N Female	N Female			
Output Load Size	5/25/60/100/150	5/25/60/100/150	5/25/60/100/150			
Reverse Isolation, Db	60	60	60			
Typical Insertion Loss, dB	0.9	0.7	0.5			
VSWR	1.22:1	1.22:1	1.22:1			
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60			
Mechanical Specifications	42-13-XX	42-40-XX	42-76-XX			
Dimensions, in (H x W x D)	3.94 x 6.25 x 1.78	4.19 x 8.75 x 1.78	5.63 x 6.13 x 1.84			
Weight, lbs	2.6	2.8	2.75			
Mounting	Cavity / Plate / Cabinet / Rack Mount Are All Available					



RF LOADS

45-05-PP Series

Our continuous power RF Loads have been specifically developed to provide our customers with a product that is extremely reliable. The RF loads are specifically designed to continually absorb reflected power. Our loads are traditionally larger than the industry average. These heavy-duty versions provide constant protection to your transmitters with their oversized heat sinks.



Electrical Specifications	45-05-05	45-05-25	45-05-60	45-05-100	45-05-250
Frequency Range, MHz	25-1000	25-1000	25-1000	25-1000	25-1000
Load Type	Dry	Dry	Dry	Dry	Dry
Cooling			Natural Air Conve	ention	
Duty Cycle			Continuous		
Connectors	N Male	N Male	N Male	N Male	N Male
Impedance, Ohms	50	50	50	50	50
Maximum RF Input Power, Watts	5	25	60	100	250
Resistor Element Rating, Watts	60	60	250	250	250
Heatsink Area, in (cm)	9.2 (59)	57 (368)	172.7 (1114)	334.7 (2159)	898.2 (5795)
VSWR	1.05:1	1.05:1	1.05:1	1.05:1	1.05:1
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	45-05-05	45-05-25	45-05-60	45-05-100	45-05-250
Dimensions, in (H x W x D)	1.31 x 1.50	5.06 x 1.50	6.3 x 3.9 x 1.6	6.3 x 3.9 x 2.9	7.4 x 8.00 x 4.3
Weight, lbs	0.18	0.64	1.28	2.00	7.52



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HIGH POWER HYBRID COMBINERS

HTC-13-0X

Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTCs are perfect for very closely spaced frequency transmitters. These devices are ideal for use when our X-Pass technology does not provide adequate performance and isolation for very close TX-TX spacing. Hybrid Combiners are also ideal for intermodulation panels, providing extra protection with their second harmonic filters, or when physical space is at a premium, and for providing extra isolation between two very close transmitters.

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

Electrical Specifications	HTC-13-04HS	HTC-13-02HS	HTC-13-04HD	HTC-13-02HD
Frequency Range, MHz	138-174	138-174	138-174	138-174
Frequency Split, MHz	30	30	24	24
Bandwidth	2.5% Cent. Freq.	2.5% Cent. Freq.	1% Cent. Freq.	1% Cent. Freq.
Channels	4	2	4	2
Continuous Power Input, Watts*	100	100	100	100
Connectors	N Female	N Female	N Female	N Female
Isolator	Single	Single	Dual	Dual
Isolation TX/TX, dB	65	65	100	100
Isolation Ant/TX	35+	35+	70+	70+
Typical Insertion Loss, dB	6.8	3.5	7.0	3.7
VSWR	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	HTC-13-04HS	HTC-13-02HS	HTC-13-04HD	HTC-13-02HD
Dimensions, in (H x W x D)	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18
Weight, lbs	11.8	9.3-11	12.8	9.3-11
Mounting		19" Rack Mount		

*Low power input (60 Watts) models are also available. Please contact our Technical Support team.



HIGH POWER HYBRID COMBINERS

HTC-40-OX

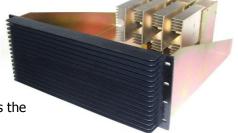
Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTCs are perfect for very closely spaced frequency transmitters. These devices are ideal for use when our X-Pass technology does not provide adequate performance and isolation for very close TX-TX spacing. Hybrid Combiners are also ideal for intermodulation panels, providing extra protection with their second harmonic filters, or when physical space is at a premium, and for providing extra isolation between two very close transmitters.

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

Electrical Specifications	HTC-40-04HS	HTC-40-02HS	HTC-40-04HD	HTC-40-02HD
Frequency Range, MHz	406-512	406-512	406-512	406-512
Frequency Split, MHz	30	30	24	24
Bandwidth	2.5% Cent. Freq.	2.5% Cent. Freq.	1% Cent. Freq.	1% Cent. Freq.
Channels	4	2	4	2
Continuous Power Input, Watts*	100	100	100	100
Connectors	N Female	N Female	N Female	N Female
Isolator	Single	Single	Dual	Dual
Isolation TX/TX, dB	65	65	100	100
Isolation Ant/TX	35+	35+	70+	70+
Typical Insertion Loss, dB	6.8	3.5	7.0	3.7
VSWR	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	HTC-40-04HS	HTC-40-02HS	HTC-40-04HD	HTC-40-02HD
Dimensions, in (H x W x D)	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18
Weight, lbs	11.8	9.3-11	12.8	9.3-11
Mounting				

*Low power input (60 Watts) models are also available. Please contact our Technical Support team.





HIGH POWER HYBRID COMBINERS

HTC-80-OX

Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTCs are perfect for very closely spaced frequency transmitters. These devices are ideal for use when our X-Pass technology does not provide adequate performance and isolation for very close TX-TX spacing. Hybrid Combiners are also ideal for intermodulation panels, providing extra protection with their second harmonic filters, or when physical space is at a premium, and for providing extra isolation between two very close transmitters.

- High Isolation
 - Minimizes intermodulation products
- Low loss
 - Maximizes system performance
- Continuous Power
 - Physical size and materials used maximize the performance across the operating band

Electrical Specifications	HTC-80-04HS	HTC-80-02HS	HTC-80-04HD	HTC-80-02HD
Frequency Range, MHz	806-960	806-960	806-960	806-960
Frequency Split, MHz	30	30	24	24
Bandwidth	2.5% Cent. Freq.	2.5% Cent. Freq.	1% Cent. Freq.	1% Cent. Freq.
Channels	4	2	4	2
Continuous Power Input, Watts*	100	100	100	100
Connectors	N Female	N Female	N Female	N Female
Isolator	Single	Single	Dual	Dual
Isolation TX/TX, dB	65	65	100	100
Isolation Ant/TX	35+	35+	70+	70+
Typical Insertion Loss, dB	6.8	3.5	7.0	3.7
VSWR	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature Range, °C	-40 to +60	-40 to +60	-40 to +60	-40 to +60
Mechanical Specifications	HTC-80-04HS	HTC-80-02HS	HTC-80-04HD	НТС-80-02НD
Dimensions, in (H x W x D)	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18	6.5 x 19 x 18
Weight, lbs	11.8	9.3-11	12.8	9.3-11
Mounting				

*Low power input (60 Watts) models are also available. Please contact our Technical Support team.





HYBRID & DIRECTIONAL COUPLERS

50-FF-YY-XX Series

We offer a full line of compact couplers covering the frequency ranges from 138-174, 215-300, or 350-520 MHz. The full range of coupling values provides balanced power division and distribution. The 50-FF series uses a multilayer bonded PCB design resulting in a high performance compact design.

- Low insertion Loss, Excellent return Loss.
- Compact dimensions VHF and 220MHz: 5.0x3.70x1.5 in. and UHF: 3.0x3.0x1.5 in.
- 3, 4.8, 6, 7, 10, 15, 20, 30 dB values.
- 200 Watts Maximum main line power. Integrated Mounting Bracket.

Model with No Load	With Integrated 5-Watt Load	With Integrated 25-Watt Load	Frequency Range	Coupling Nom. (dB)	Thruline Loss (dB)	Power Split Ratio (%)
50-13-03-00	50-13-03-05	50-13-03-25	138-174MHz	-3.0	-3.0 ±0.3	50 / 50
50-13-48-00	50-13-48-05	50-13-48-25	138-174MHz	-4.8	-1.8 ±0.2	67 / 33
50-13-06-00	50-13-06-05	50-13-06-25	138-174MHz	-6.0	-1.2 ±0.2	75 / 25
50-13-07-00	50-13-07-05	50-13-07-25	138-174MHz	-7.0	-1.0 ±0.2	80 / 20
50-13-10-00	50-13-10-05	50-13-10-25	138-174MHz	-10.0	-0.5 ±0.2	90 / 10
50-13-15-00	50-13-15-05	50-13-15-25	138-174MHz	-15.0	-0.14 ±0.2	97 / 3
50-13-20-00	50-13-20-05	50-13-20-25	138-174MHz	-20.0	-0.04 ±0.2	99 / 1
50-13-30-00	50-13-30-05	50-13-30-25	138-174MHz	-30.0	-0.04 ±0.2	99.9 / 0.1
50-21-03-00	50-21-03-05	50-21-03-25	215-300MHz	-3.0	-3.0 ±0.3	50 / 50
50-21-48-00	50-21-48-05	50-21-48-25	215-300MHz	-4.8	-1.8 ±0.2	67 / 33
50-21-06-00	50-21-06-05	50-21-06-25	215-300MHz	-6.0	-1.2 ±0.2	75 / 25
50-21-07-00	50-21-07-05	50-21-07-25	215-300MHz	-7.0	-1.0 ±0.2	80 / 20
50-21-10-00	50-21-10-05	50-21-10-25	215-300MHz	-10.0	-0.5 ±0.2	90 / 10
50-21-15-00	50-21-15-05	50-21-15-25	215-300MHz	-15.0	-0.14 ±0.2	97 / 3
50-21-20-00	50-21-20-05	50-21-20-25	215-300MHz	-20.0	-0.04 ±0.2	99 / 1
50-21-30-00	50-21-30-05	50-21-30-25	215-300MHz	-30.0	-0.04 ±0.2	99.9 / 0.1
50-35-03-00	50-35-03-05	50-35-03-25	350-520MHz	-3.0	-3.0 ±0.3	50 / 50
50-35-48-00	50-35-48-05	50-35-48-25	350-520MHz	-4.8	-1.8 ±0.2	67 / 33
50-35-06-00	50-35-06-05	50-35-06-25	350-520MHz	-6.0	-1.2 ±0.2	75 / 25
50-35-07-00	50-35-07-05	50-35-07-25	350-520MHz	-7.0	-1.0 ±0.2	80 / 20
50-35-10-00	50-35-10-05	50-35-10-25	350-520MHz	-10.0	-0.5 ±0.2	90 / 10
50-35-15-00	50-35-15-05	50-35-15-25	350-520MHz	-15.0	-0.14 ±0.2	97 / 3
50-35-20-00	50-35-20-05	50-35-20-25	350-520MHz	-20.0	-0.04 ±0.2	99 / 1
50-35-30-00	50-35-30-05	50-35-30-25	350-520MHz	-30.0	-0.04 ±0.2	99.9 / 0.1







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CERAMIC COMBINER

X-Pass Ceramic Combiner

Our Ceramic Combiner uses dielectric resonator technology to offer higher performance than standard RF cavities in a much smaller package. It combines 4 channels in only 7.75" of standard 19" rack space. The resonator allows combining of transmitters at a frequency spacing as close as 150 kHz. Lower insertion loss per channel is another result of the sharper filtering performance.

Expandable in individual channel increments. Available in Star or X-Pass (expandable) configuration.

- Available for the 764-776, 851-869 and 935-941 MHz bands
- Designed for tight channel spacing
- Lowest insertion loss, high isolation for maximum coverage and reduced interference
- Easy field expandability with X-Pass technology one channel at a time
- Compact, robust design for rapid installations, increased mobility and ease of maintenance

Electric	cal S	pecificat	ions							
Frequen	icy R	ange, MH:	z		764-776, 85	1-869	9 & 935-941		No. Contraction	
Frequen	icy S	bacing, Mi	n.		1	50 k⊦	łz			
Temper	ature	Range, °	С		-35	to +	-60			
		lation at M bacing of			65 dB min (dou	ble ju	unction isolator)			0
ANT to [·]	TX Is	olation			60 dB min (dou	ble ju	unction isolator)			
Insertio	n Los	S			1.8 dB – 4 2.5 dB – 16 3.8 dB – 24	6 Ch.				56
Power I	nput	/ Channel	(Wa	tts)		125			\neg	M. 7
Transmi	itter i	Input VSW	/R (m	nax)	1	.25:	1		41.2	° 24
Mechai	nical	Specific	atior	าร				AL V		
Dimensi	ons ((HWD), in	(mm	ı)	7.75 x 19 x 14	(197	7 x 483 x 356)			
Weight,	lb (k	g)			4-Channel	syste	em 32 (15)			
Order I	Info	mation								
DRXC	-	FF	-	XX	N or D					h.,
DRXC	Die	lectric Res	sonat	or X-Pa	ss Configuration				Ha.	
FF	76=		•	iency ba =851-86	and: 59 / 93=935-940		Example: Moc			7
XX	XX Number of Channels				annels		4 Channel N Co	c Combiner, 764-776 MHz, onnectors		
N or D		N = 1	N Fer	of Conne nale Co N Conne	nnectors					



CROSS-BAND/X-BAND COUPLER

Our Cross-Band Couplers are designed for easy installation, reduced coaxial runs, and in-building applications for multi-band antennas. They allow multiple bands to share the same transmission lines. They are available in VHF, UHF and 800/900MHz bands. They can be tower mounted (TM), rack mounted (RM), tray-mounted (TRM) or stand alone.





Electrical Specifications		XBC-02-38	XBC-02-38-R	XBC-38-76	XBC-38-76-R	XBC-38-76-RX	
Frequency Range, MHz	1st	25-175	25-175	380-512	380-512	380-512	
	2nd	380-960	380-960	764-960	764-960	764-960	
Typical Loss, dB	1st	0.35	0.35	0.20	0.35	0.30	
,, ,	2nd	0.50	0.50	0.20	0.50	0.50	
Isolation, dB		40	40	40	40	40	
Power Rating, Watts	1st	250	RX Only	250	RX Only	250	
5, 11	2nd	250	RX Only	250	RX Only	RX Only	
Connectors							
VSWR				1.25:1			
Temperature ^o C		-40 to +60	-40 to +60	-40 to +60	-40 to +60	-40 to +60	
Mechanical Specifications	х	(BC-02-38	XBC-02-38R	XBC-38-80	XBC-38-80R	XBC-38-80RX	
Dimensions	DEPENDS on Mounting Configuration						
Rack Mount	DEPENDS on Mounting Configuration						
Tower Mount			DEPENDS of	on Mounting Co	nfiguration		



COMBLINE FILTERS / PRESELECTORS

57-FF-XX Series

Our Combline filters are designed for minimizing interference from adjacent channels and outside systems. They are available in a wide range of bandwidths and frequency splits. Used in front of a wideband receiver multicoupler, the preselectors narrow the passband to the desired bandwidth. Each filter is temperature compensated for operation between -40°C to +60°C. Each filter has silver-plated loops, and silver-plated tuning rods. Comprod Inc. preselectors are available in a wide range of frequency splits, bandwidth and cavity sizes.

- Temperature Compensation •
 - Ensures Frequency Stability
- High Attenuation
 - Minimizes desense and interference from adjacent systems

Several other preselectors are also available. They include comblines and our full line of cavity based preselectors. Sizes range from the very compact 1" helical filter to the very selective 6.625" cavity preselector. Please contact our Technical Support team for consultation at sales@comprodcom.com

Electrical Specifications	57-45-04	57-80-05	57-80-07	57-80-15	57-80-18
Frequency Range, MHz	450-470	766-960	766-960	766-960	766-960
Туре	Combline	Combline	Combline	Combline	Combline
Insertion Loss Bandwidth, dB	3	1.5	1.5	0.8	0.8
Pass Bandwidth, MHz	4.0	5.0	7.0	15.0	18.0
Return Loss, dB (VSWR)	20 (1.22)	20 (1.22)	20 (1.22)	20 (1.22)	20 (1.22)
Typical Selectivity, dB @ MHz	38 @ 5	80 @ 45	80 @ 45	70 @ 45	70 @ 45
Temperature Range, °C	-30 to +60	-30 to +60	-30 to +60	-30 to +60	-30 to +60
Input Power, Watt	RX Only	RX Only	RX Only	RX Only	RX Only
Connectors, Antenna/Output	N-F/N-F	N-F/N-F	N-F/N-F	N-F/N-F	N-F/N-F
Mechanical Specifications	57-45-04	57-80-05	57-80-07	57-80-15	57-80-18
Finish	Black		Black and g	jold Alodine	
Dimensions H x W x D, in (mm)	5.25 x 19 x 4.5	3.5 x 19 x 6			
	(133 x 686 x 114)	(89 x 483 x 152)			

Order information: specify working frequency, bandwidth, power and isolation required.



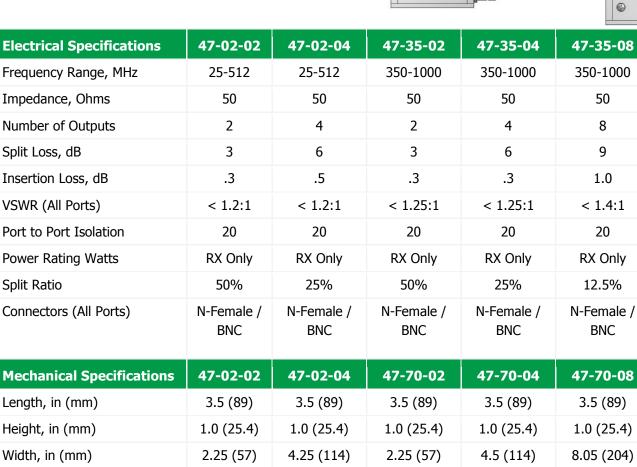
Simplifying RF Solutions



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POWER SPLITTERS

We offer a full line of Power Splitters. The 47-02-XXN and 47-70-XXN series is a hybrid design which provides 20 dB or more of port to port isolation. They are typically used on receiver multicoupler applications. They provide low loss above the splitting loss and cover a very wide frequency range. N connectors are standard but other connectors are available. Standard finish is gold Alodine.



.96 (435)

Tray/Deck

.4 (185)

Tray/Deck

.5 (230)

Tray/Deck



Weight, lbs (Kg)

Mounting

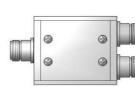
.96 (435)

Tray/Deck

2.6 (1150)

Tray/Deck

6



FILTER RACKS AND MOUNTING

Filter Rack Mounting Systems

Our filter racks are designed for flexible, space saving filter systems. Each rack has its own benefits, space constraints, ease of installation and cost effectiveness.

We offer four types of racks:

19-inch Standard Rack

This is a standard 19" rack with mounting holes on either side of the rack for ease of installation. Racks are available in different heights.

<u>X-Rack</u>

The X-Rack was specifically developed for our X-Series Cavities. This rack system allows for maximum cavity installation, but minimizes the amount of physical space that is used. All cavities mount horizontally for easy installation and removal. Most X-Rack systems will be supplied turnkey and pre-assembled for quick installation. The maximum capacity per rack is 21 cavities. Racks are available in different heights.

Stack Rack

The Stack Rack is used when space is at a premium. It must be assembled on-site. Two Stack Racks can hold 40 cavities. All cavities are mounted horizontally, with 4 cavities per row.

Wall-Mount and Cabinets

We have multiple versions of these cabinets and cavity mounts. Please contact us for additional information. Do not hesitate to ask for custom installations.

We offer four types of mounting hardware:

- Cabinet Mount (CM)
- Wall Mount (WM)
- Rack Mount (RM)
- Tower Mount (TM)
- Tray Mount (TRM)

We supply mounting hardware manufactured to your specifications. We offer the ability to design, and build your custom concepts.

Rack Style	Model Number	Cavity Size	Cavity Length	# of Cavity	Height	Width	Depth				
X Rack	19-10-26-13	10"	26"	13	79.5"	24"	28.69"				
X Rack	19-07-11-20	6.625"	11.5"	20	86.5"	24"	14.19"				
X Rack	19-07-26-20	6.625"	26"	20	86.5"	24"	28.69"				
X Rack	19-07-13-20	6.625"	13"	20	86.5"	24"	15.81"				
X Rack	19-10-26-19	10"	26"	19	108"	24"	28.69"				
Stack Rack	HRV-85	6.625"	26"	20	42.62"	32.75"	30.25"				
Stack Rack	HRU-85	6.625"	11.5"	20	42.62"	32.75"	18.25"				
19" Standard		Call for Available Dimensions									



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FILTER RACKS AND MOUNTING



X Rack

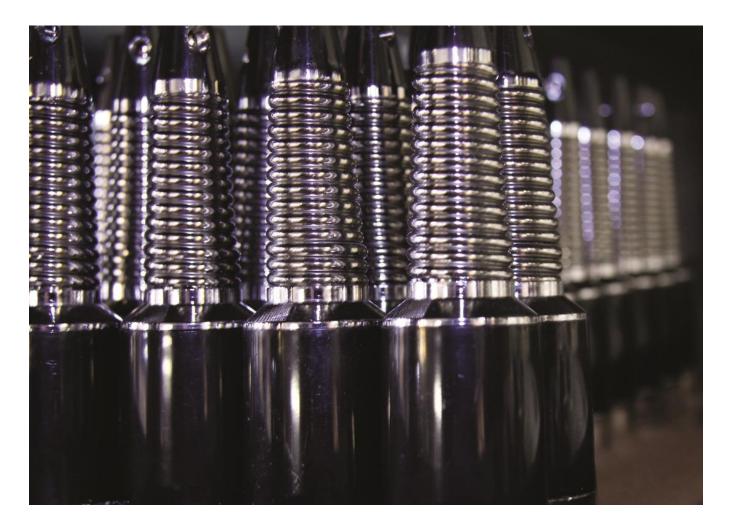


Wall Mount



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Mobile / Transit Antennas





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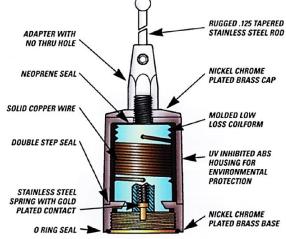
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Our Mobile and Transit Antenna lines are suited for Government and Utility applications and result in long term, problem-free installations.

We use stainless steel whips, incorporate high-impact ABS, and gold-plated, spring-loaded contacts, ensuring long term reliability and performance.

Our multi-band antennas have been developed for transmitting and receiving Data and Voice.

We have also customized many Wideband and Full-Band VHF, UHF, and 700/800/900 MHz antenna models for unique requirements. Please contact our Technical Support team for consultation if you require customized antennas at sales@comprodcom.com.



Model		Frequency						Gain			Options		
	Dual Band	VHF	220	UHF	700-900	Other Bands	Unity	2dB	3dB	No Gnd Plane	Black	With Spring	
550-75		•	•	•	•		•				•		
552-75		•	•	•			•				•	•	
555-75		•	•	•	•		•				•		
565-75						27-54	•				•	•	
573-75		•					•					•	
F-33329		•					•						
575-75		•						•		•		•	
576-75		•						•		•		•	
577-75		•						•		•		•	
578-75		•						•				•	
580-75		•							•		•	•	
583-75				•					•		•	•	
F-33371					•			•					
590-75					•				•		•		



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Model				F	requency	1		Gain		C	ptions	
	Dual Band	VHF	220	UHF	700-900	Other Bands	Unity	2dB	3dB	No Gnd Plane	Black	With Spring
591-75					•				•		•	
592-75					•				•			
593-75					•				•		•	
594-75					•				•		•	
595-75					•				3.5		•	•
599-75					•				•	•	•	•
690-75	•				•	1710-1970	•				•	
692-75	•				•	2400-2500		•			•	
694-75	•				•	1850-1990		•			•	
696-75	•				•	880-1200 / 2300-2600 1100-1500 / 2400-2800	•				•	
357-75		•					•					
358-75		•					•					
364-75			•				•					
359-75				•			•					
360-75				•			•					
361-75					•		•					
362-75					•		•					





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1/4 WAVE BROADBAND

552-75 Series

Performance: These antennas provide unity gain in a broadband design for extra heavy-duty service.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. They come with an integrated shock spring and a heavy-duty stainless-steel whip that is designed to withstand severe shock.

Reliable: The ABS base has an ultrasonically welded brass insert and a gold-plated spring-loaded contact.

Broadband: This antenna provides 24 MHz of bandwidth using VHF frequencies and 100 MHz of bandwidth at UHF frequencies.

Standard Mounting: All base loaded antennas mate with the standard Motorola NMO type mount.

Electrical Specifications	552-75
Frequency Range, MHz	132-512
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth, MHz	VHF - 24 @ 2.0:1 VSWR, UHF - 100 @ 2.0:1 VSWR
Mechanical Specifications	552-75
Radiator: Chrome A	Tapered S.S. whip., 0.125 dia.
Black B	Tapered S.S. whip., 0.10 dia.
Base	Ultrasonic brass insert
Contact	Spring-loaded, gold-plated
Height, in (mm)	21.5 (55) at 138MHz
Mounting	Standard Motorola NMO
Ordering Information	552-75
Description	Model
Chrome finish, triple-plated chrome	552-75-A
Black finish	552-75-B





1/4 WAVE

550-75 Series

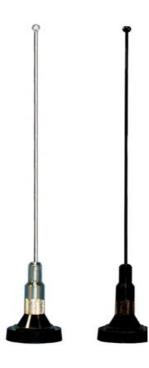
Performance: These antennas provide unity gain in a wideband design for heavy-duty service.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. Triple-plated chrome or black finishes are available.

Reliable: The ABS base has an ultrasonically welded brass insert and a gold-plated spring-loaded contact.

Versatile: They are shipped with a 19" whip that can be cut by the customer to any frequency between 136 MHz and 960 MHz according to a cutting chart that is provided. They can also be supplied cut and tested to a specific frequency, at no extra charge.

Electrical Specifications	550-75
Frequency Range, MHz	136-960
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth, MHz	VHF - 12 @ 2.0:1 VSWR
	UHF - 50 @ 2.0:1 VSWR
Mechanical Specifications	550-75
Radiator	S.S.
Base	ABS, Ultrasonic brass insert
Contact	Spring-loaded contact
Height, in	19 Maximum
Mounting	Standard Motorola NMO
Ordering Information	550-75
Description	Model
Chrome finish, triple-plated chrome	552-75-A
Black finish	552-75-В





1/4 WAVE ECONOMICAL

555-75 Series

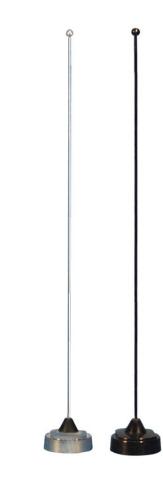
Performance: These antennas provide unity gain in a wideband design for heavy-duty service.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. Triple-plated chrome or black finishes are available.

Reliable: The ABS base has an ultrasonically welded brass insert and a gold-plated spring-loaded contact.

Versatile: They are shipped with a factory tuned whip cut to size based on the customer specified frequency range between 136 MHz and 960 MHz.

Electrical Specifications	555-75
Frequency Range, MHz	132-960
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	200
VSWR	1.5:1
Bandwidth, MHz	VHF - 12 @ 2.0:1 VSWR
	UHF - 50 @ 2.0:1 VSWR
Mechanical Specifications	555-75
Radiator: Chrome A	Tapered S.S., 0.10 dia.
Black B	Tapered S.S., 0.10 dia.
Black B Base	Tapered S.S., 0.10 dia. ABS
Base	ABS
Base Height, in	ABS 20 Maximum
Base Height, in Mounting	ABS 20 Maximum Standard Motorola NMO
Base Height, in Mounting Ordering Information	ABS 20 Maximum Standard Motorola NMO 555-75





LOW BAND

565-75 Series

Performance: Unity gain, base loaded antenna with a power handling capacity of 200 Watts.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Standard Mounting: These antennas mate with the standard Motorola NMO type mount, providing an excellent moisture seal even when the antenna is removed.

Electrical Specifications	565	-75
Frequency Range, MHz	27-	-54
Gain	Un	ity
Impedance, Ohms	5	0
Power Rating, Watts	20	00
VSWR	2.0):1
Bandwidth	2% of ce	nter freq.
Mechanical Specifications	565	-75
Radiator: Chrome A	Tapered S.S	., 0.125 dia.
Black B	Tapered S.S	5., 0.10 dia.
Base	ABS, spring-lo	aded contact
Height, in	52 Max	kimum
Mounting	Standard Mo	otorola NMO
Ordering Information	565-75-A	565-75-В
Frequency	Chrome	Black
27-31 MHz	565-75-A*1	565-75-B*1
30-35 MHz	565-75-A*2	565-75-B*2
34-40 MHz	565-75-A*3	565-75-B*3
40-47 MHz	565-75-A*4	565-75-B*4
47-54 MHz	565-75-A*5	565-75-B*5





27-54 MHz



1/4 WAVE VHF FULLBAND / 0 dBd

573-75 Series

Performance: This broadband 1/4-wave antenna provides 0 dBd of gain over its operating bandwidth.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Standard Mounting: These antennas mate with the standard Motorola NMO type mount, providing an excellent moisture seal even when the antenna is removed.

Electrical Specifications	57	/3-75
Frequency Range, MHz	13	8-174
Gain	ι	Jnity
Impedance, Ohms		50
Power Rating, Watts		100
Bandwidth, MHz	40MHz @	1.8:1 VSWR
Mechanical Specifications	57	/3-75
Radiator	Stainl	ess Steel
Base	ABS, spring	-loaded contact
Height, in		25
Mounting	Standard N	Motorola NMO
Ordering Information	57	/3-75
Description	Standard Model	With Spring Mount
Antenna with chrome finish and rubber boot	573-75-A	573-75-AS

 S11 SWR 100.0m/ Ref 1.000 [F1]

 2.000

 >1 138.00000 MHz

 1.900

 1.800

 1.800

 1.700

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.600

 1.400

 1.200

 1.200

 1.100

 1.100

 1.100

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VHF FLEXIBLE ANTENNA / UNITY GAIN

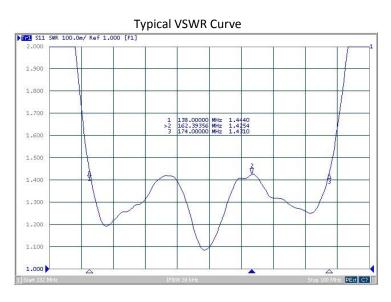
F-33329

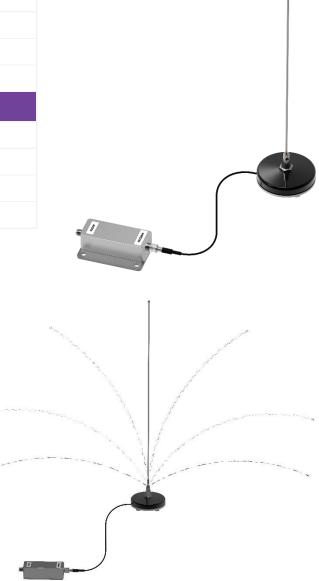
We supply antennas that use the most advanced shape memory alloy for vehicles, such as ambulances, where the vertical clearance is very critical. This antenna is ideal for a vehicle that enters areas with reduced headroom.

This antenna is combined with a matching circuit that is mounted inside the vehicle. The F-33329 has a base that is less than 1.5 inches high.

Each antenna assembly is individually calibrated on the roof of a vehicle with the same dimensions as the ambulance or a similar vehicle, to ensure the best performance even when the antenna is bent at its maximum angle.

Electrical	F-33329
Frequency Range, MHz	138-174
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	100
VSWR	< 1.5:1
Mechanical	F-33329
Radiator	Nickel Titanium
Base Height, in.	1.5
Total Height, in.	18
Connector	Mini-UHF







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1/2 WAVE VHF WIDEBAND / 2 dBd

575-75 Series – No Ground Plane Antenna

Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Electrical Specifications		575-75	
Frequency Range, MHz		138-174	
Gain, dBd		2.0	
Impedance, Ohms		50	
Power Rating, Watts		75	
Bandwidth, MHz	26 (@ 2.0:1 VSWR	
Mechanical Specifications		575-75	
Radiator	17-7 P	H Stainless Steel	
Base	ABS, spr	ing-loaded contact	
Height, in	5	2 Maximum	
Mounting	Standa	rd Motorola NMO	
Ordering Information		575-75	
Description	Standard	With Spring Mount	
Antenna with chrome finish and rubber boot	575-75-A	575-75-AS	





1/2 WAVE VHF WIDEBAND / 2 dBd

576-75 Series – No Ground Plane Antenna

Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Electrical Specifications	!	576-75
Frequency Range, MHz	1	148-174
Gain, dBd		2.0
Impedance, Ohms		50
Power Rating, Watts		150
Bandwidth, MHz	-	1.5:1 VSWR 2.0:1 VSWR
Mechanical Specifications		576-75
Radiator	17-7 PH	Stainless Steel
Base	ABS, sprin	g-loaded contact
Height, in	52	Maximum
Mounting	Standard	l Motorola NMO
Ordering Information	!	576-75
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	576-75-A	576-75-AS





1/2 WAVE VHF WIDEBAND / 2 dBd

577-75 Series – No Ground Plane Antenna

Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Standard Mounting: All base loaded antennas mate with the standard Motorola NMO type mount.

Electrical Specifications	5	77-75
Frequency Range, MHz	1:	36-174
Gain, dBd		2.0
Impedance, Ohms		50
Power Rating, Watts		75
Bandwidth, MHz	-	1.5:1 VSWR @ 2.0:1 VSWR
Mechanical Specifications	5	77-75
Radiator	17-7 PH 3	Stainless Steel
Base	ABS, spring	g-loaded contact
Height, in	52 M	Maximum
Mounting	Standard	Motorola NMO
Ordering Information	5	77-75
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	577-75-A	577-75-AS



1/2 WAVE VHF FULLBAND / 2 dBd

578-75 Series

Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Electrical Specifications	573	8-75
Frequency Range, MHz	138	3-174
Gain, dBd	2	2.0
Impedance, Ohms	!	50
Power Rating, Watts	1	00
Bandwidth/VSWR	36 MHz @	1.8:1 VSWR
Mechanical Specifications	573	8-75
Radiator	Stainle	ess Steel
Base	ABS, spring-l	oaded contact
Height, in	3	6.5
Mounting	Standard M	lotorola NMO
Ordering Information	57	8-75
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	578-75-A	578-75-AS





5/8 WAVE VHF / 3 dBd

580-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8-wave whip with a base loaded matching coil.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Electrical Specifications		580-75
Frequency Range, MHz	132-174	
Gain, dBd		3.0
Impedance, Ohms		50
Power Rating, Watts		200
VSWR		2.0:1
Bandwidth, MHz		6
Mechanical Specifications		580-75
Radiator: Chrome A	Tapered S.	S. whip., 0.125 dia.
Black B	Tapered S	.S. whip., 0.10 dia.
Base	ABS, sprin	ng-loaded contact
Height, in		55 Whip
Mounting	Standar	d Motorola NMO
Ordering Information		580-75
Description	Standard	With Spring Mount
Chrome finish, triple-plated chrome	580-75-A	580-75-AS
Black finish	580-75-B	580-75-BS



UHF / 3 dBd

583-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8-wave whip with a base loaded matching coil.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Broadband: The large diameter coil form used in the construction of the loading coil allows for a wider operational bandwidth and better matching characteristics.

Weatherproof: Rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Electrical Specifications	583	-75			
Frequency Range, MHz	406-512				
Gain, dBd	3.	0			
Impedance, Ohms	5	0			
Power Rating, Watts	20	00			
VSWR	2.0):1			
Bandwidth, MHz	20 @ 2.0	:1 VSWR			
Mechanical Specifications	583-75				
Radiator: Chrome A	Tapered S.S. whip., 0.10 dia.				
Black B	Tapered S.S. whip., 0.10 dia.				
Base	ABS, spring-loaded contact				
Height, in	21 V	Vhip			
Mounting	Standard Mo	otorola NMO			
Ordering Information			583-75		
Frequency	Chrome with Rubber Boot	Chrome with Spring Mt. and Rubber Boot	Black with Rubber Boot	Black with Spring Mt. and Rubber Boot	
406-430 MHz	583-75-A*1	583-75-AS*1	583-75-B*1	583-75-BS*1	
430-470 MHz	583-75-A*2	583-75-AS*2	583-75-B*2	583-75-BS*2	
470-512 MHz	583-75-A*3	583-75-AS*3	583-75-B*3	583-75-BS*3	



BROADBAND ANTENNA / 2 dBd

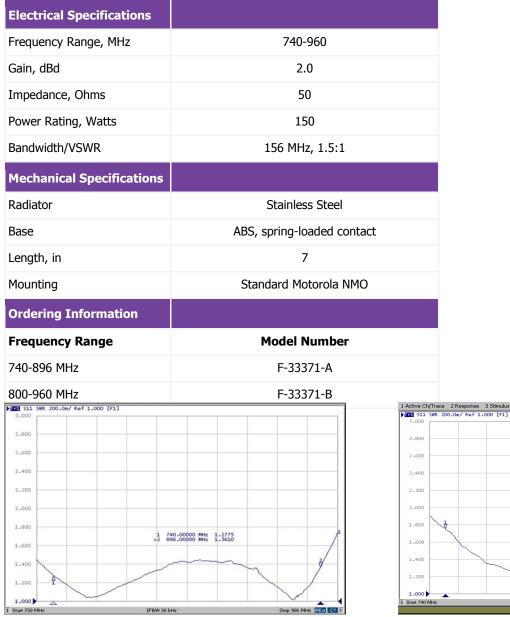
This antenna provides a dual band frequency range of 700/800 MHz or 800/900 MHz Public Safety bands.

Performance: This broadband antenna provides 2 dB of gain over its operating bandwidth.

Stylish and Durable: The antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert molded low loss coil form and a spring-loaded, gold-plated contact.

Weatherproof: The rubber boot keeps moisture out of the antenna base. It avoids scratching/rusting of vehicle if antenna is frequently removed, for maintenance or car wash activities.

Standard Mounting: All base loaded antennas mate with the standard TAD / NMO type mount.





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2016-10-07.14

5/8 WAVE /3 dBd

590-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8-wave whip with a base loaded matching coil.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Broadband: The large diameter coil form used in the construction of the loading coil allows for a wider operational bandwidth and better matching characteristics.

Weatherproof: O-ring seals keep moisture out of the antenna base.

Electrical Specifications	590-75	
Frequency Range, MHz	746-960	
Gain, dBd	3.	0
Impedance, Ohms	50	0
Power Rating, Watts	20	0
Bandwidth, MHz	70 @ 2.0	1 VSWR
Mechanical Specifications	590-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Height, in	14 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	590	-75
Frequency	Chrome	Black
746-806MHz	590-75-A*4	590-75-B*4
806-866 MHz	590-75-A*1	590-75-B*1
824-896 MHz	590-75-A*2	590-75-B*2
896-960 MHz	590-75-A*3 590-75-B*3	





5/8 WAVE / ECONOMICAL / 3 dBd

591-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/4 wave antenna with an open coil design.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert and a molded low loss coil.

Reliable: The ABS base has an ultrasonically welded brass insert and a leaf spring-loaded contact for long term reliability.

Electrical Specifications	591-75	
Frequency Range, MHz	746-960	
Gain, dBd	3.	0
Impedance, Ohms	50)
Power Rating, Watts	20	0
Bandwidth, MHz	70 @ 2.0	1 VSWR
Mechanical Specifications	591-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	Leaf Design	
Height, in	15 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	591-75	
Frequency	Chrome	Black
746-806MHz	591-75-A*4	591-75-B*4
806-866 MHz	591-75-A*1	591-75-B*1
824-896 MHz	591-75-A*2	591-75-B*2
896-960 MHz	591-75-A*3	591-75-B*3





5/8 WAVE / CLOSED COIL / 3 dBd

592-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/2 wave antenna with a closed coil design.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Reliable: The ABS base has an ultrasonically welded brass insert and a leaf spring-loaded contact for long term reliability.

Electrical Specifications	592-75	
Frequency Range, MHz	746-960	
Gain, dBd	3.	0
Impedance, Ohms	5	0
Power Rating, Watts	20	00
Bandwidth, MHz	70 @ 2.0	:1 VSWR
Mechanical Specifications	592-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Contact	Spring-loaded, gold-plated	
Height, in	16 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	592	-75
Frequency	Chrome	Black
746-806MHz	592-75-A*4	592-75-B*4
806-866 MHz	592-75-A*1	592-75-B*1
824-896 MHz	592-75-A*2	592-75-B*2
896-960 MHz	592-75-A*3	592-75-B*3





5/8 WAVE FULLBAND / SPRING MOUNT / 3 dBd

593-75 Series – First Responders Antenna

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/4 wave design.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Weatherproof: O-ring seals keep moisture out of the antenna base.

Standard Mounting: These antennas mate with the standard Motorola NMO type mount, providing an excellent moisture seal even when the antenna is removed.

Electrical Specifications	593-75	
Frequency Range, MHz	740-840	
Gain, dBd	3.0)
Impedance, Ohms	50)
Power Rating, Watts	20	0
VSWR	< 2.0:1	
Mechanical Specifications	593-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Contact	Spring-loaded, gold-plated	
Height, in	17	
Mounting	Standard Motorola NMO	
Ordering Information	593-75	
Frequency	Chrome with Spring	Black with Spring
740-840 MHz	593-75-A	593-75-B







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5/8 WAVE FULLBAND / MAG MOUNT / 3 dBd

594-75 Series

Performance: 3 dBd gain is achieved by using a 5/8 wave antenna above a 1/4 wave design.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The base is triple-plated chrome brass with a large insert, molded low loss coil form and a spring-loaded gold-plated contact.

Magnetic Mounting: Features a powerful magnetic base with a protective Mylar to prevent damage to any mounting service. It is supplied with 12 feet of RG58U coax and your choice of connector. Available with Mini-UHF or TNC connector.

Electrical Specifications	594-75	
Frequency Range, MHz	730-850	
Gain, dBd		3.0
Impedance, Ohms		50
Power Rating, Watts		200
VSWR	<	2.0:1
Mechanical Specifications	594-75	
Radiator	Stainless Steel	
Base	ABS	
Contact	Spring-loaded, gold-plated	
Height, in		16
Mounting	Mini-UHF or TNC connector on 12' cable, Magnetic Mount Base	
Ordering Information	594-75	
Frequency	Chrome	Black
730-850 MHz	594-75-A	594-75-B





5/8 WAVE / CLOSED COIL / 3.5 dBd

595-75 Series

Performance: 3.5 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/4 wave design.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. It comes with an integrated shock spring and a heavy-duty stainless-steel whip that is designed to withstand severe shock without suffering permanent damage. It is available in triple-plated chrome or black finish

Reliable: The ABS base has an ultrasonically welded brass insert and a gold-plated, spring-loaded contact. The silver-plated matching coil is fully enclosed to ensure years of dependable service.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Electrical Specifications	595-75		
Frequency Range, MHz	760-970		
Gain, dBd	3.	5	
Impedance, Ohms	50)	
Power Rating, Watts	20	0	
Bandwidth, MHz	70 @ 2	2.0:1	
Mechanical Specifications	595-75		
Radiator: Chrome A	Stainles	Stainless Steel	
Black B	Stainless Steel		
Matching Coil	Silver plated enclosed coil		
Base	ABS, spring-loaded contact		
Contact	Spring-loaded, gold-plated		
Height, in	18 Max	imum	
Mounting	Standard Mo	torola NMO	
Ordering Information	595-75		
Frequency	Chrome	Black	
746-806 MHz	595-75-A*4	595-75-B*4	
806-866MHz	595-75-A*1	595-75-B*1	
824-896MHz	595-75-A*2	595-75-B*2	
896-970MHz	595-75-A*3	595-75-B*3	





5/8 WAVE ELEVATED FEED / 3 dBd

599-75 Series

Performance: 3 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/4 wave design with an elevated feed point. This antenna requires no ground plane as a result of its collinear design. The elevated feed design is ideal for the antenna RF signal to clear any nearby obstructions.

Safety: The elevated feed-point design keeps the RF signals above and away from the passenger compartment.

Elegance This elegant black antenna gives a sleek appearance that blends well with the exterior treatments of most late model vehicles.

Dependability: The 599-75 antenna features a built-in shock spring and a spring-loaded contact for long term dependability.

Electrical Specifications	599-75
Frequency Range, MHz	806-960
Gain, dBd	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth, MHz	70 @ 2.0:1 VSWR
Mechanical Specifications	599-75
Radiator	Black Stainless Steel
Base	Open Coil
Contact	Solid Brass Base
Height, in	23 Maximum
Mounting	Standard Motorola NMO
Finish	Black
Ordering Information	599-75
Frequency	Black Finish
806-866MHz	599-75-B*1
824-896MHz	599-75-B*2
896-960MHz	599-75-B*3





DUAL BAND ANTENNAS

692-75 Series

Performance: Our premium dual band antennas feature heavy-duty design and excellent performance. Perfect for both voice and data transmission. These antennas are very wide in bandwidth.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The antenna is low profile, extremely rugged and ideal for commercial applications.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Electrical Specifications	692-75	
Frequency Range (Full Band), MHz	900-930 / 2400-2500	
Gain, dBd	2	2.0
Impedance, Ohms	ļ	50
Power Rating, Watts	2	50
Bandwidth, MHz	Full Band @ 2.0:1 VSWR	
Mechanical Specifications	692	2-75
Base	ABS	
Contact	Gold-plated spring-loaded	
Height, in	3	
Mounting	Standard Motorola NMO	
Ordering Information	692-75	
Finish	White	Black
	692-75-W	692-75-В





DUAL BAND ANTENNAS

694-75 Series

Performance: Our premium dual band antennas feature heavy-duty design and excellent performance. Perfect for both voice and data transmission. These antennas are very wide in bandwidth.

Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The antenna is low profile, extremely rugged and ideal for commercial applications.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Electrical Specifications	694-75	
Frequency Range (Full Band), MHz	806-960 / 1850-1990	
Gain, dBd		2.0
Impedance, Ohms		50
Power Rating, Watts		250
Bandwidth, MHz	Full Band @ 2.0:1 VSWR	
Mechanical Specifications	694-75	
Base	ABS	
Contact	Gold-plated spring-loaded	
Height, in	4	
Mounting	Standard Motorola NMO	
Ordering Information	694-75	
Finish	White	Black
	694-75-W	694-75-B







DUAL BAND ANTENNAS

696-75 Series

Performance: Our premium dual band antennas feature heavy-duty design and excellent performance. Perfect for both voice and data transmission. These antennas are very wide in bandwidth.

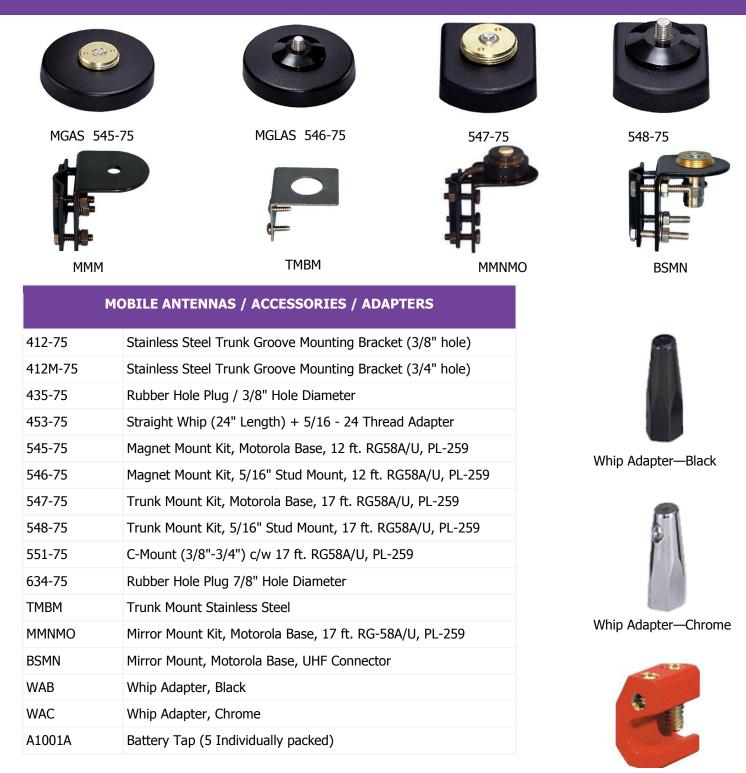
Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. The antenna is low profile, extremely rugged and ideal for commercial applications.

Weatherproof: O-ring seals and overlap construction keeps moisture out of the antenna.

Electrical Specifications	696-75-B*1	696-75B*2
Frequency Range (Full Band), MHz	1100-1500 / 2400-2500	880-1200 / 2300-2600
Gain	Unity	Unity
Impedance, Ohms	50	50
Power Rating, Watts	200	200
Bandwidth, MHz	Full Band @ 2.0:1 VSWR	Full Band @ 2.0:1 VSWR
Mechanical Specifications	696-75-B*1	696-75B*2
Radiator	Polyester Coated Brass	Polyester Coated Brass
Base	ABS, Ultrasonic Brass insert	ABS, Ultrasonic Brass insert
Contact	Gold-plated spring-loaded	Gold-plated spring-loaded
Height, in	2.75	2.75
Mounting	Standard Motorola NMO	Standard Motorola NMO
Ordering Information	696-75-B*1	696-75B*2
Finish	Black	Black
	696-75-B*1	696-75B*2



ACCESSORIES / ADAPTERS



COMPROD Simplifying RF Solutions Battery Tap A1001A

ACCESSORIES / ADAPTERS

UTBM	Mount Terminates as Mini-UHF.
UTBM-UHF	Mount Terminates as UHF.
UTBM-NF	Mount Terminates as N Female.
UTCR	Celling Mounts Terminates as Mini-UHF.
UNIBKT	Mobile-to-base adapter only, includes hose clamps.
BSMO-150-NF	VHF mobile-to-base adapter w/artificial ground plane, N Female connector.
BSMO-450-NF	UHF mobile-to-base adapter w/artificial ground plane, N Female connector.
BSMO-800-NF	800-900 mobile-to-base adapter w/artificial ground plane, N Female connector.



ACCESSORIES / ADAPTERS

MOBILE MOUNTS



CABLE KITS

Our brass mounts and cable kits are among the best in the Industry. The cable kits present a consistent 50 Ohms impedance to match our mobile antennas, ensuring that our customers receive the best combined performance from the antennas and the cable kits. The quality of our designs is one of the factors that allows our wideband models to outperform the competition.

551-75	С Туре	All Brass	3/4-3/8-inch mount only		
551A-75	М Туре	Standard	3/4-inch mount only		1
551B-75	МВ Туре	All Brass	3/4-inch mount only	CZL NMO TYPE MOUNT KIT	STAINLESS STEEL SADD
551C-75	МН Туре	Standard	3/4-inch mount only (large contact)		↑ <u> </u>
551D-75	MHB Type	All Brass	3/4-inch mount only (large contact)		STANDARD FEED SYSTEM
551E-75	ASC Type	All Brass	3/4-3/8-inch k166 type mount		

CONNECTORS

We carry and stock a complete line of connectors. Please contact our Technical Support team for additional information at: sales@comprodcom.com.





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ACCESSORIES / ADAPTERS

RG-58A/U Stranded	RG-58/U Solid	ANTENNA MOUNTS WITH 17 Ft of RG-58A/U Stranded Center or RG-58/U solid center cable
551-75-CA	551-75-CU	C Mount No Connector
551A-75-CA	551A-75-CU	M Mount No Connector
551B-75-CA	551B-75-CU	MB Mount No Connector
551E-75-CA	551E-75-CU	ASC Mount No Connector
551-75-CA-01	551-75-CU-01	C Mount Crimp TNC
551A-75-CA-01	551A-75-CU-01	M Mount Crimp TNC
551B-75-CA-01	551B-75-CU-01	MB Mount Crimp TNC
551E-75-CA-01	551E-75-CU-01	ASC Mount Crimp TNC
551-75-CA-02	551-75-CU-02	C Mount Crimp BNC
551A-75-CA-02	551A-75-CU-02	M Mount Crimp BNC
551B-75-CA-02	551B-75-CU-02	MB Mount Crimp BNC
551E-75-CA-02	551E-75-CU-02	ASC Mount Crimp BNC
551-75-CA-03	551-75-CU-03	C Mount Solder PL-259
551A-75-CA-03	551A-75-CU-03	M Mount Solder PL-259
551B-75-CA-03	551B-75-CU-03	MB Mount Solder PL-259
551E-75-CA-03	551E-75-CU-03	ASC Mount Solder PL-259
551-75-CA-04	551-75-CU-04	C Mount Crimp Mini UHF
551A-75-CA-04	551A-75-CU-04	M Mount Crimp Mini UHF
551B-75-CA-04	551B-75-CU-04	MB Mount Crimp Mini UHF
551E-75-CA-04	551E-75-CU-04	ASC Mount Crimp Mini UHF
551-75-CA-05	551-75-CU-05	C Mount Solder N
551A-75-CA-05	551A-75-CU-05	M Mount Solder N
551B-75-CA-05	551B-75-CU-05	MB Mount Solder N
551E-75-CA-05	551E-75-CU-05	ASC Mount Solder N
551-75-CA-06	551-75-CU-06	C Mount Crimp PL-259
551A-75-CA-06	551A-75-CU-06	M Mount Crimp PL-259
551B-75-CA-06	551B-75-CU-06	MB Mount Crimp PL-259
551E-75-CA-06	551E-75-CU-06	ASC Mount Crimp PL-259
551-75-CA-07	551-75-CU-07	C Mount Crimp N
551A-75-CA-07	551A-75-CU-07	M Mount Crimp N
551B-75-CA-07	551B-75-CU-07	MB Mount Crimp N
551E-75-CA-07	551E-75-CU-07	ASC Mount Crimp N



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ACCESSORIES / ADAPTERS

546-75-02

546-75-03 546-75-04

MAGNET MOUNTS WITH 12FT OF R	G-58A/U CABLE (Optional: 17FT)
545-75-01	Magnet Mount with TNC
545-75-02	Magnet Mount with BNC
545-75-03	Magnet Mount with PL-259
545-75-04	Magnet Mount with Mini UHF
545-75-05	Magnet Mount with Type N
545-75-06	Magnet Mount with Crimp UHF
545-75-07	Magnet Mount with Crimp N
545-75-08	Magnet Mount with FME
545-75-10	Magnet Mount with SMA
546-75-01	Magnet Mount with TNC

Magnet Mount with BNC

Magnet Mount with PL-259

Magnet Mount with Mini UHF

546-75-05	Magnet Mount with Type N				
546-75-06	Magnet Mount with Crimp UHF				
546-75-07	Magnet Mount with Crimp N				
TRUNK MOUNTS WITH 17FT OF RG-58A/U CABLE					
547-75-01	Trunk Mount with TNC				
547-75-02	Trunk Mount with BNC				
547-75-03	Trunk Mount with PL-259				
547-75-04	Trunk Mount with Mini UHF				
547-75-05	Trunk Mount with Type N				
547-75-06	Trunk Mount with Crimp UHF				
547-75-07	Trunk Mount with Crimp N				
548-75-01	Trunk Mount with TNC				
548-75-02	Trunk Mount with BNC				
548-75-03	Trunk Mount with PL-259				
548-75-04	Trunk Mount with Mini UHF				
548-75-05	Trunk Mount with Type N				
548-75-06	Trunk Mount with Crimp UHF				
548-75-07	Trunk Mount with Crimp N				



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ACCESSORIES / ADAPTERS

IOUNTING BRACKETS	
ТМВС	Stainless Trunk L 3/8-inch Hole (Chrome)
ТМВМ	Stainless Trunk L 3/4-inch Hole (Chrome)
ТМВСВ	Stainless Trunk L 3/8-inch Hole (Black)
ТМВМВ	Stainless Trunk L 3/4-inch Hole (Black)
МММ	Mirror Mount Bracket
ММСВ	Mirror Mount CB with 12 ft. of coax., PL-259
ММСМ	Mirror Bracket, C-Mount & 12 ft. Coax.
IOBILE ANTENNA PARTS	
DBW	Dual Band Whip 0.10
DBWB	Dual Band Whip 0.10, Black
WPDB33	Dual Band Whip Assembly, 4 dB
WPDB33B	Dual Band Whip Assembly, 4 dB, Black
QWP	20-inch Stainless Whip 0.10
QWPB	20-inch Stainless Whip 0.10, Black
WPBL125	52-inch Stainless Taper Whip 0.125
WPBL100	52-inch Stainless Taper Whip 0.10
WPBL100B	52-inch Stainless Taper Whip 0.10, Black
EFW	Elevated Feed Whip Assembly
WP85A-X	3.5 dB Whip Assembly 800 MHz
WP85B-X	3.5 dB Whip Assembly 800 MHz, Black
WP855A-X	5 dB Whip Assembly 800 MHz
WP855B-X	5 dB Whip Assembly 800 MHz, Black
WP45A-X	3.5 dB Whip Assembly 450 MHz
WP45B-X	3.5 dB Whip Assembly 450 MHz, Black
WPBL45AX	5 dB Base Load Whip 450 MHz
WPBL45BX	5 dB Base Load Whip 450 MHz, Black



VHF / TRANSIT ANTENNAS

357-75, 358-75 and 364-75

Our line of VHF transit antennas is a low profile rugged alternative to a 1/4 wave whip mobile antenna. When mounted on a horizontal surface, maximum radiation is omnidirectional and vertically polarized.

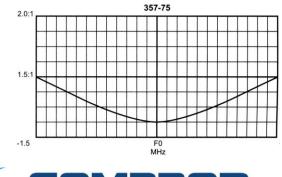
These antennas are an excellent choice for low clearance applications such as those found on trains, public transit vehicles, construction equipment and police vehicles.

The model 357-75-ABS is a folded 1/4 wavelength section of aluminum tube housed in an impact resistant ABS radome. To ensure a moisture proof installation, the model 357-75-ABS is supplied with a mounting gasket.

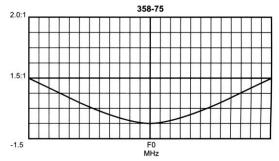
The model 358-75 and 364-75 are high strength cast aluminum designs. The antennas can be coated for additional protection against harsh environmental conditions. To ensure a moisture proof installation, the 358-75 and 364-75 are supplied with an O-ring.

Electrical Specifications	357-75-ABS	358-75	364-75
Nominal Gain	Unity	Unity	Unity
Maximum Power, Watts	150	150	150
Frequency Range, MHz	148-174	138-174	215-225
Bandwidth VSWR: 1.5:1, MHz	3.0	3.0	10
Bandwidth VSWR: 2.0:1. MHz	4.5	4.5	>10
Nominal Impedance, Ohms	50	50	50
Radiation Pattern	Omni	Omni	Omni
Polarization	Vertical	Vertical	Vertical
Radome Material	High Impact ABS	N/A	N/A
Connector	UHF / BNC / N Female	UHF / BNC / N Female	UHF / BNC / N Female
Height, in (mm)	4 (102)	4 (102)	4 (102)
Length, in (mm)	21 (533)	23-1/2 (597)	17 (432)
Width, in (mm)	3 (76)	2-1/8 (54)	2 (51)
Weight, lbs (kg)	2.1 (0.945)	6 (2.7)	5 (2.27)
Minimum Ground Plane Size, in (mm)	36 x 48 (914 x 1219)	36 x 48 (914 x 1219)	36 x 48 (914 x 1219)

Ordering information: Specify exact frequency, Specify connector type, UHF, BNC or N Female



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UHF / TRANSIT ANTENNAS

359-75 and 360-75

Our line of UHF transit antennas is a low profile rugged alternative to 1/4 wave whips. When mounted on a horizontal surface, maximum radiation is omnidirectional and vertically polarized.

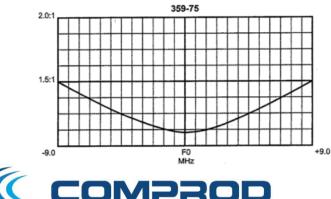
These antennas are an excellent choice for low clearance applications such as those found on trains, public transit vehicles, construction equipment and police vehicles.

The model 359-75 is a high strength cast aluminum design. The antenna can be coated for additional protection against harsh environmental conditions. To ensure a moisture proof installation, the model 359-75 is supplied with an O-ring.

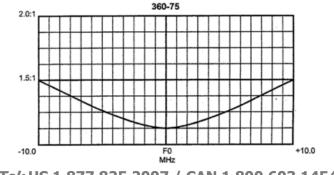
The model 360-75-ABS is a folded 1/4 wavelength section of aluminum tube housed in an impact resistant ABS radome. To ensure a moisture proof installation, the model 360-75-ABS is supplied with a mounting gasket.

Electrical Specifications	359-75	360-75-ABS
Nominal Gain	Unity	Unity
Maximum Power, Watts	125	125
Frequency Range, MHz	406-512	380-512
Bandwidth VSWR: 1.5:1, MHz	18	20
Bandwidth VSWR: 2.0:1, MHz	27	40
Nominal Impedance, Ohms	50	50
Radiation Pattern	Omnidirectional	Omnidirectional
Polarization	Vertical	Vertical
Radome Material	N/A	High Impact ABS
Connector	UHF / BNC / N Female / PNC	UHF / BNC / N Female / PNC
Height, in (mm)	2-1/2 (64)	3 (76)
Length, in (mm)	8 (203)	11 (279)
Width, in (mm)	2 (51)	3-1/4 (83)
Weight, lbs (kg)	0.75 (0.338)	1 (0.45)
Minimum Ground Plane Size, in (mm)	20 x 16 (508 x 406)	20 x 16 (508 x 406)

Ordering information: Specify exact frequency, Specify connector type, UHF, BNC or N Female



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800 MHz TRANSIT ANTENNAS

361-75 and 362-75

Our line of radome transit antennas for operation in the 806-960 MHz band consists of compact, low profile antennas in weatherproof ABS radomes. When mounted on a horizontal surface, maximum radiation is omnidirectional and vertically polarized.

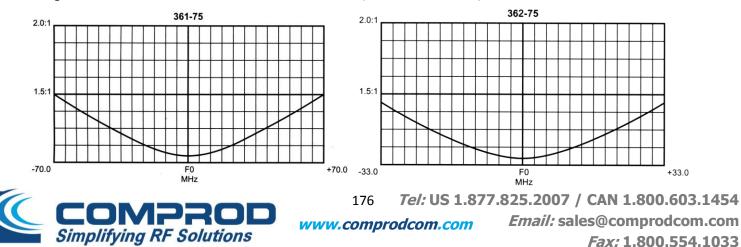
These antennas are an excellent choice for low clearance applications such as those found on trains, mass transit vehicles, construction equipment and police and emergency vehicles.

The 361-75-ABS model is a space diversity design that provides greater communication reliability in a poor environment. To ensure a moisture proof installation, the 361-75-ABS model is supplied with an O-ring.

The 362-75-ABS model is a standard, folded radiator housed in a sturdy high-impact ABS radome. To ensure a moisture proof installation, the 362-75-ABS model is supplied with a mounting gasket.

Electrical Specifications	361-75-ABS-NF	362-75-ABS-NF
Nominal Gain	Unity	2 dBd
Maximum Power, Watts	50	125
Frequency Range, MHz	806-960	806-960 (in splits*)
Bandwidth VSWR: 1.5:1, MHz	140	66
Bandwidth VSWR: 2.0:1, MHz	N/A	100
Nominal Impedance, Ohms	50	50
Radiation Pattern	Omnidirectional	Omnidirectional
Polarization	Vertical	Vertical
Radome Material	High Impact ABS	High Impact ABS
Connector	N Female	N Female
Height, in (mm)	3.15 (80)	2 (51)
Diameter, in (mm)	9.3 (236)	4.5 (114)
Weight, lbs (kg)	2.5 (1.15)	0.375 (0.169)
Minimum Ground Plane Size, in (mm)	14 x 14 (355 x 355)	10 x 10 (254 x 254)

*Ordering information for 362-75-ABS-NF: <u>*1 = 806-869MHz</u>; <u>*2 = 824-896MHz</u>; <u>*3 = 900-960MHz</u>



Disguised Antennas





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Disguised antennas allow a public security organization to use a vehicle's existing AM/FM antennas for both conventional radio receiver functions as well as allowing a two-way radio to communicate over the same antenna. This allows a covert vehicle to avoid the need for a long mobile antenna, and disguise the fact that it is equipped with a two-way radio communication device. Comprod supplies either the Original Equipment Manufacturers (OEM) antennas, or adjustable universal mounted antennas, based on customer needs. A broadcast coupler is optionally available, to allow the two- way radio transmit and receive frequencies to be shared with the vehicle's AM/FM radio. The coupler prevents the transmit radio from damaging the AM/FM radio. When multi-band operation is required, Comprod provides the required Cross-band couplers, in order to support multiple frequency band operation on a single antenna.

Comprod has a long experience in supplying disguised antennas and associated couplers to some of the leading Public Safety and private security organizations across North America, for national, state, regional and municipal agencies. Our disguised antennas and filters are reliable and high quality to meet the needs of Mission-Critical communications. The antennas provide high-performance two-way communications in VHF (low and high band), UHF, dual, and 800-900 MHz mobile bands. Once installed, they will be indistinguishable from the original AM/FM broadcast antenna on the covert or undercover vehicle.







LOW BAND ANTENNAS

can be omitted.

We supply disguised antennas using an OEM antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

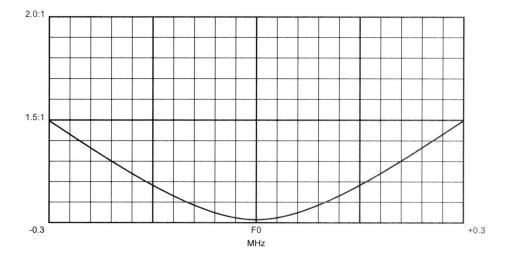
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	0.60
Power Rating, Watts	150
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	17 ft. RG58/U
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 444-75
If the antenna is not required to provide AM/FM F	Radio service, the Broadcast Coup

Typical VSWR vs Frequency curve





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TX/RX

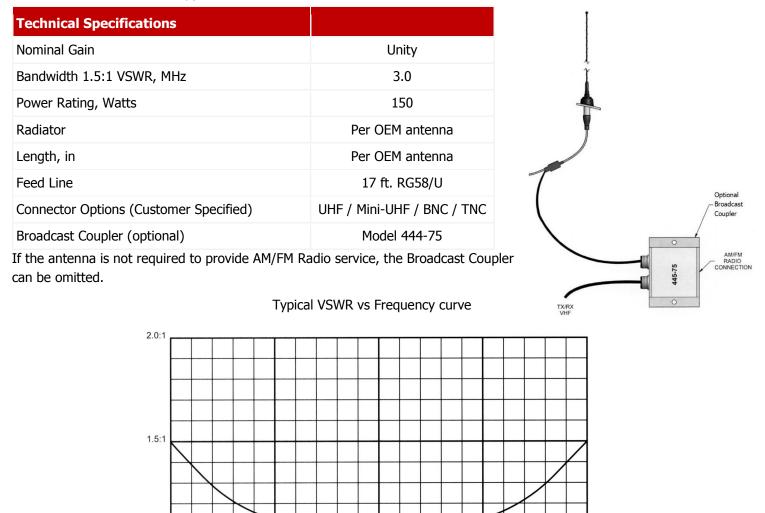
VHF ANTENNAS

We supply disguised antennas using an OEM antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).



F0 MHz



-1.5

+1.5

VHF ANTENNAS

Model F-33390

We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	F-33390
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	138-150
Power Rating, Watts	50
Radiator	Fiberglass
Length, in	13.5
Feed Line	17 ft.
Connector Options (Customer Specified)	Mini-UHF
Broadcast Coupler (optional)	Model 444-75

If the antenna is not required to provide AM/FM Radio service, the Broadcast Coupler can be omitted.





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UHF ANTENNAS

We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

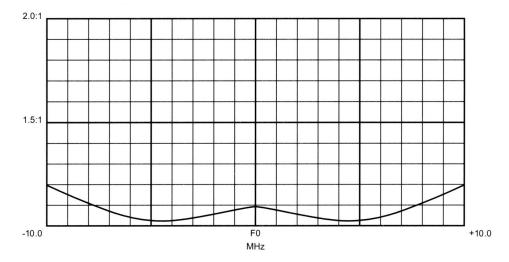
We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	10-20
Power Rating, Watts	150
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	17 ft. RG-8X
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 446-75
If the antenna is not required to provide AM/FM	Radio service, the Broadcast Cou

If the antenna is not required to provide AM/FM Radio service, the Broadcast Coupler can be omitted.







TX/RX UHF

700/800/900 MHz ANTENNAS

We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

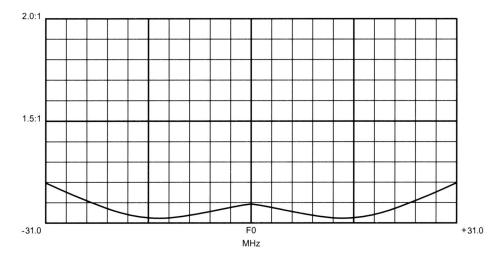
We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	62
Power Rating, Watts	75
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	20 ft. LMR-195
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 447-75

If the antenna is not required to provide AM/FM Radio service, the Broadcast Coupler can be omitted.







TX/RX

700/800/900

Optional Broadcast Coupler

AM/FM RADIO

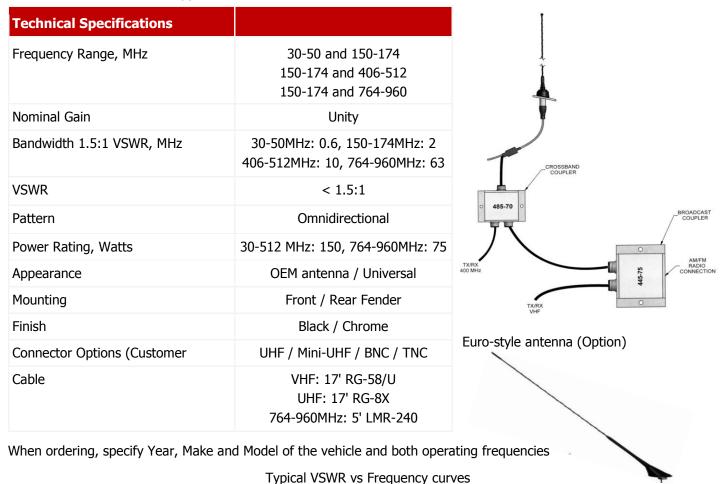
DUAL BAND ANTENNAS

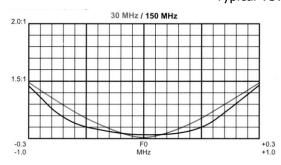
We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

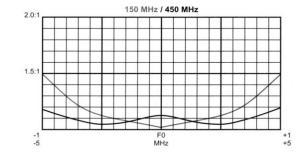
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).









DUAL BAND ANTENNAS

Model F-33404

We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	F-33404
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	138-150, 764-776
Power Rating, Watts	50
Radiator	Fiberglass
Length, in	13.5
Vertical Height, in	13
Feed Line	15 ft.
Connector Options (Customer Specified)	Mini-UHF
Broadcast Coupler (optional)	Model 445-75

If the antenna is not required to provide AM/FM Radio service, the Broadcast Coupler can be omitted.





COUPLERS

We are the leader in the design of RF filtering and coupling devices. The following are the specifications for couplers and tuners required as part of a Disguised Antenna solution.

Broadcast couplers - allow AM-FM broadcast receiver operation along with normal two-way mobile radio operation. Crossband couplers - allow mobile radios on two different bands to operate with a single disguised antenna. Antenna tuners - provide impedance matching and partly retuning the existing antenna to new frequencies.

Broadcast Coupler Specifications

Model Number	Frequency Range	Insertion	Loss	Max Power	Minimum Isolation	Connectors
444-75	27-54 MHz	0.15 dB	1.5	150 Watts	35 dB	
445-75	138-174 MHz	0.15 dB	1.5	150 Watts	35 dB	Mini-UHF
446-75	406-512 MHz	0.15 dB	1.5	150 Watts	35 dB	
447-75	764-960 MHz	0.20 dB	0.5	50 Watts	40 dB	

Crossband Coupler Specifications

Model Number	Frequend Low Pass	cy Range High Pass	Max Power	Insertion Loss	Minimum Isolation	Connectors	Size (H x W X L) In (mm)
485-75	138-174 MHz	406-512 MHz		0.4 dB	40 dB		
486-75	30-50 MHz	138-174 MHz	100 Watts	0.3 dB	35 dB	UHF Female	1.6 x 3.5 x 3 (41 x 89 x 76)
487-75	138-174 MHz	764-960 MHz		0.3 dB	35 dB		

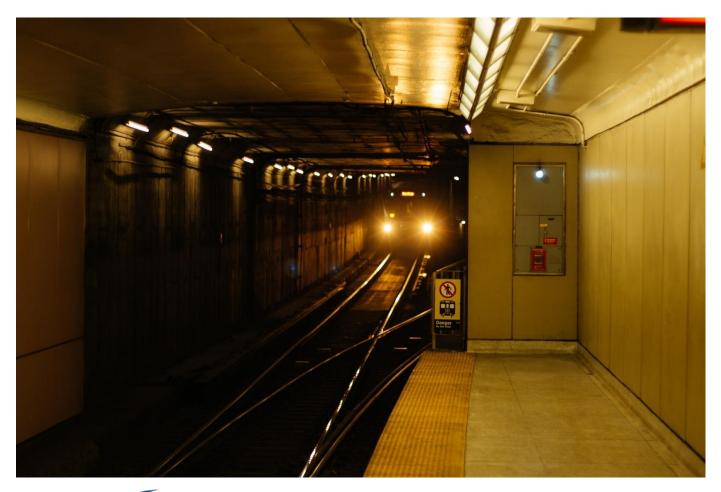


Antenna Tuner Specifications

Model Number	Frequency Range	Max Power	Imp	edance
			Input 1	Input 2
461-75	144-174 MHz	150 Watts	50 Ohms	10-700 Ohms
462-75	406-512 MHz	150 Watts	50 Ohms	10-700 Ohms



In-Building Systems





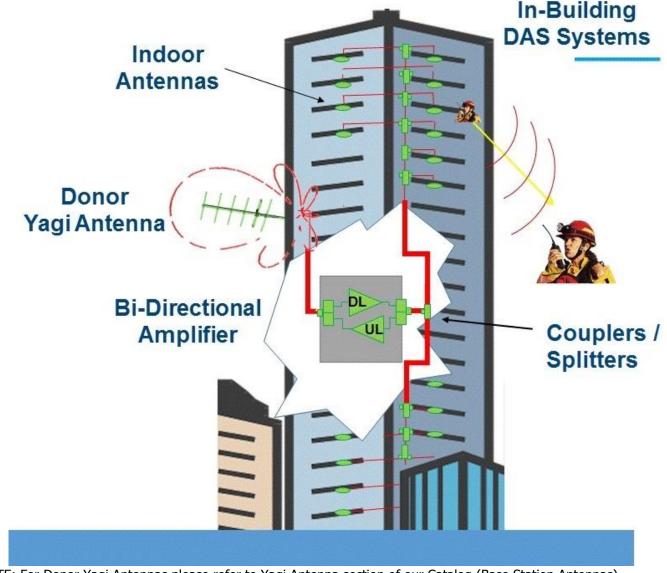
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Our In-building antennas are offered for a variety of RF communication projects for environments that require internal propagation of RF for public safety needs. Our products have been deployed for mission critical projects including subway transit in-tunnel or underground projects, high-rise in-building systems, nuclear power plants, correctional facilities, shopping malls, parking garages, casinos and public sports arenas.

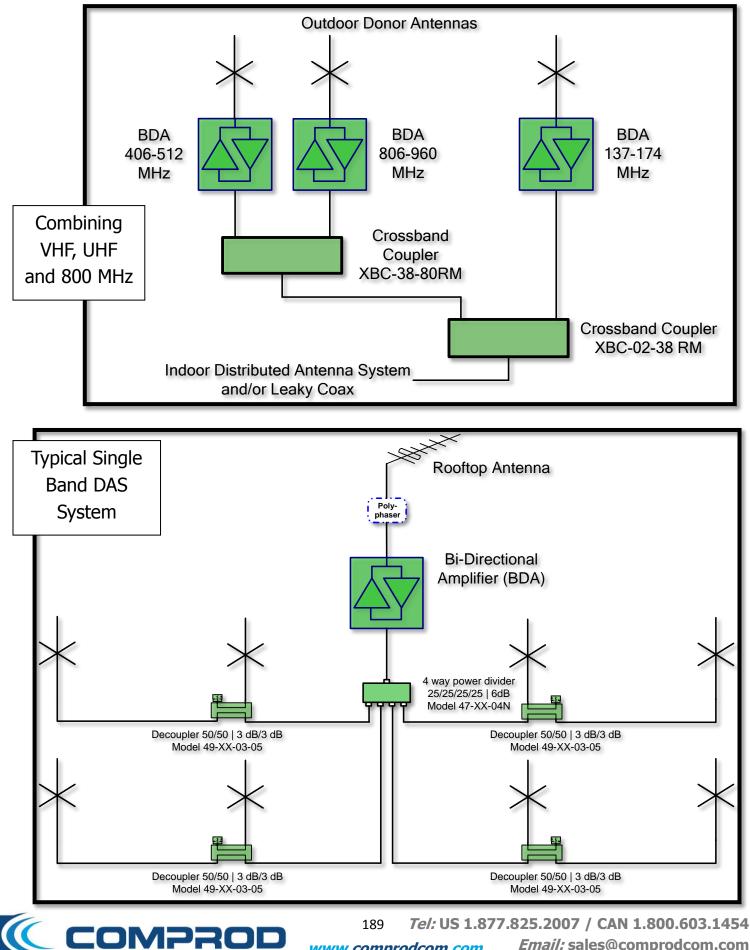
Our line of antenna system solutions incorporates single, dual, and tri-band frequency specifications. These antennas are offered in a wide range of enclosures: radomes, low profile, 6200 Kydex fire-retardant material, ABS high-impact, and polycarbonate.

We can complement antenna systems with other RF components from our portfolio to build out the network: splitters, couplers, taps, cables, connectors, signal boosters (Bi-Directional Amplifiers) required for complete RF needs for Inbuilding public safety requirements.



NOTE: For Donor Yagi Antennas please refer to Yagi Antenna section of our Catalog (Base Station Antennas)

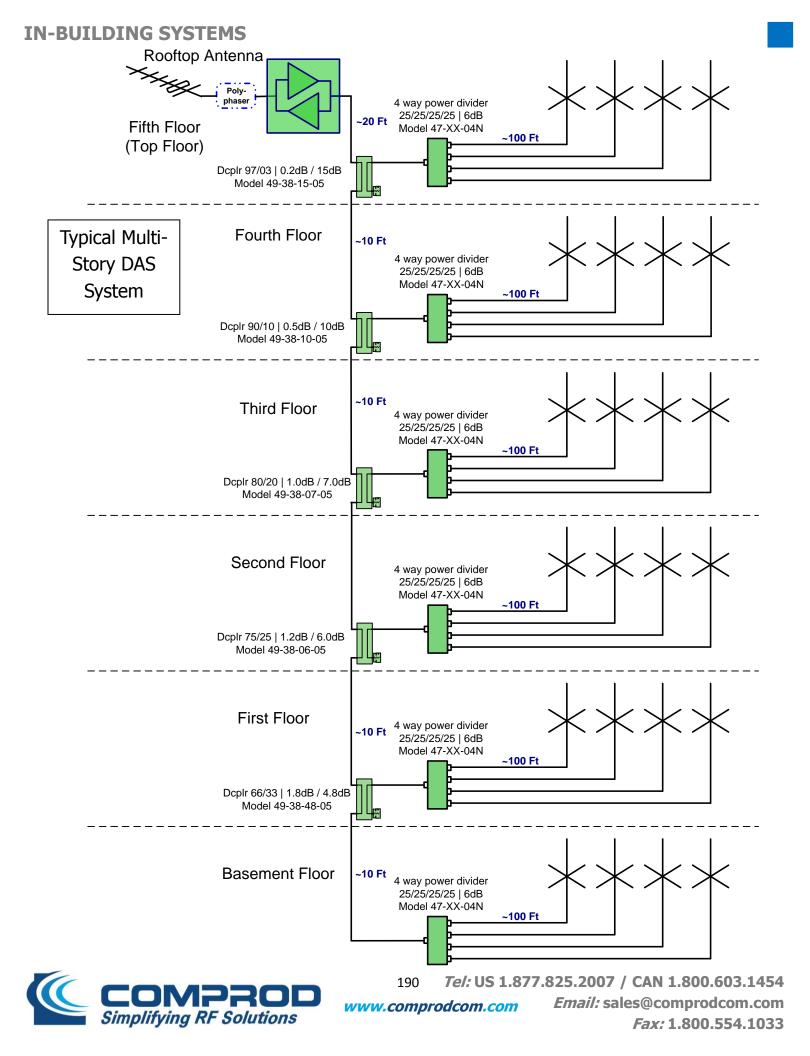




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				Anter	nnas			
Part Number	Frequency Range, MHz	Length, in (mm)	Diameter, in (mm)	Pattern	Power, Watts	Radome material	Color	Standard Connector
357-75	148-174	4 x 21 x 3		Omni	150	ABS/6200 Kydex	Grey/White	UHF/BNC/ N Female
360-75	406-512	3.25 x 3 x 11		Omni	50	ABS/6200 Kydex	Grey/White	UHF/BNC/ N Female/PNC
361-75	806-960	3.15 (80)	9.3 (236)	Omni	50	ABS/6200 Kydex	Grey/White	N Female
362-75	806-960	2.0 (51)	4.5 (114)	Omni	100	ABS/6200 Kydex	Grey/White	N Female
F-3987	380-512	6.75 (171)	0.5 (12.75)	Omni	150	Aluminum	Black or white	N Male
F-3953	380-512	7.0 (178.5)	0.625 (15.93)	Omni	50	Aluminum	Black or white	NMO
F-33005	806-960 / 1850-1990	2 (51)	4.5 (114)	Omni	50	6200 Kydex	White	N Female
F-33048	740-960	2 (51)	4.5 (114)	Omni	50	6200 Kydex	White	N Female installed at the base
F-33048-A	740-960	2 (51)	4.5 (114)	Omni	50	6200 Kydex	White	32" Jumper – N Female
F-3749/B	VHF /UHF/ 760-960	9.78 (249)	7.0 (178.5)	Omni	50	6200 Kydex	White	N Female
F-3749-A	VHF /UHF/ 760-960	9.78 (249)	7.0 (178.5)	Omni	50	6200 Kydex	White	2' jumper to N Male or N Female
F-3741	VHF /UHF/ 760-960	11.25 (286.88)	0.65 (16.575)	Omni	50	Polycarbonate	Black	N Male
945-70	580-2700	30x13		Directional	150	ABS	Grey	7/16 DIN

				Amplifi	ers				
Part Number	Frequency Range, MHz	Size, in (mm)	Color	Connectors	Max. Gain, dB	Noise Figure, dB	Max. Output Power, dBm	Input Voltage	Alarm Indicators
UBDA-138225	138-225	24H x 20W x 14D	Grey	N Female	+80	4 typical	DL: +29 UL: +29	AC: 115-220	Power Fail
UBDA-4551	380-512	24H x 24W x 12D	Grey	N Female	+70	4 typical	DL: +29 UL: +29	AC: 115-220	N/A
BDA 764806	DL: 764-776 UL: 794-806		Grey/Red	N Female	+80	2.5 typical	DL: +31.5 UL: +31.5	AC: 115-220 DC: 24-27	AGC, S/D, Power Fail
BDA 806870	DL: 851-869 UL: 806-824		Grey/Red	N Female	+80	2.5 typical	DL: +31.5 UL: +31.5	AC: 115-220 DC: 24-27	AGC, S/D, Power Fail
BDA 896941	DL: 935-941 UL: 896-901		Grey/Red	N Female	+80	2.5 typical	DL: +31.5 UL: +31.5	AC: 115-220 DC: 24-27	AGC, S/D, Power Fail



SINGLE-BAND IN-BUILDING ANTENNAS

Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

We offer a variety of antennas with Fire Retardant 6200 Kydex radomes. These materials are designed for In-building applications and inside public transport vehicles such as underground trains, vans, buses and trains. They meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

Our antennas have been installed worldwide and provide RF coverage inside nuclear power plants, correctional institutions, tunnels, high-rise buildings, subways, shopping malls, parking garages, power plants, high-security office networks and mine shafts.

Note: add the material and connector type to the part number when ordering:

- ABS is for outdoor use and is grey in color (Default)
- KYDEX is for indoor use and is white in color

Electrical Specifications	357-75	360-75	361-75	362-75
Frequency Range, MHz	148-174	380-512	806-960	806-960
Nominal Gain	Unity	Unity	Unity	2 dBd
Bandwidth 1.5:1 VSWR, MHz	3	20	140	66
Bandwidth: 2.0:1 VSWR, MHz	4	40	140	100
Polarization	Vertical	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
Power Rating, Watts	150	50	50	100
Nominal Impedance, Ohms	50	50	50	50
Radome	ABS / 6200 Kydex	ABS / 6200 Kydex	ABS / 6200 Kydex	ABS / 6200 Kyde
Color	Grey / White	Grey / White	Grey / White	Grey / White
Standard Termination	UHF / BNC / N Female	UHF / BNC / N Female / PNC	N Female	N Female
Mechanical Specifications	357-75	360-75	361-75	362-75
Width, in (mm)	4.0 (102)	3.0 (76)	3.15 (80)	2.0 (51)
Length, in (mm)	21.0 (533)	11.0 (279)	N/A	N/A
Height, in (mm)	3.0 (76)	3.25 (83)	N/A	N/A
Diameter, in (mm)	N/A	N/A	9.3 (236)	4.5 (114)
Weight, lbs (kg)	2.1 (0.945)	1.0 (0.45)	2.5 (1.15)	0.375 (0.169)
Required Minimum Ground Plane Size, in (mm)	36 x 48 (914 x 1219)	20 x 16 (508 x 406)	14 x 14 (355 x 355)	10 x 10 (254 x 254)
Mounting hardware	Not Included	Not Included	Not Included	Not Included



SINGLE-BAND IN-BUILDING ANTENNAS

357-75 Top and Underside-view







362-75 Top and Underside View





360-75

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148-960 MHz

UHF IN-BUILDING ANTENNAS

Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

Our antennas can cover single or multiple frequency bands.

We offer a wide variety of antennas with Fire Retardant 6200 Kydex radomes. These materials are designed for In-building applications and inside public transport vehicles such as underground trains, vans, buses and trains. They meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

Our antennas have been installed worldwide and provide RF coverage inside nuclear power plants, correctional institutions, tunnels, high-rise buildings, subways, shopping malls, parking garages, power plants, high-security office networks and mine shafts.

Electrical Specifications	F-3987	F-3953
Frequency Range, MHz	380-470 / 420-512	380-470 / 420-512
Nominal Gain	Unity	Unity
Bandwidth: 2.0:1 VSWR, MHz	90	90
Polarization	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional
Power Rating, Watts	150	50
Nominal Impedance, Ohms	50	50
Radome	Aluminium Painted	Aluminium Painted
Color	Black / White	Black / White
Standard Termination	N Male	NMO
Mechanical Specifications	F-3987	F-3953
Max. Length, in (mm)	6.75 (171)	7.0 (178.5)
Diameter, in (mm)	0.5 (12.75)	0.625 (15.93)
Weight, lbs (kg)	N/A	N/A
Required Minimum Ground Plane Size, in (mm)	8 x 8 (203 x 203)	8 x 8 (203 x 203)
Mounting hardware	Ground Plane Included	Ground Plane Not Included



MULTI-BAND IN-BUILDING ANTENNAS

Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

Our antennas can cover single or multiple frequency bands.

We offer a wide variety of antennas with Fire Retardant 6200 Kydex radomes. These materials are designed for In-building applications and inside public transport vehicles such as underground trains, vans, buses and trains. They meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

The antennas are installed on ceilings to provide RF coverage inside nuclear power plants, correctional institutions, tunnels, high-rise buildings, subways, shopping malls, parking garages, power plants, high-security office networks and mine shafts.

Electrical Specifications	F-33005	F-33048	F-33048-A
Frequency Range, MHz	806-960 / 1850-1990	760-960	760-960
Nominal Gain	Unity	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz			
138-174	N/A	N/A	N/A
406-512	N/A	N/A	N/A
760-960	N/A	200	200
806-960	72 (specify frequencies)	N/A	N/A
1800-1990	140	N/A	N/A
Polarization	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional
Power Rating, Watts	50	50	50
Nominal Impedance, Ohms	50	50	50
Radome	6200 Kydex	6200 Kydex	6200 Kydex
Standard Termination	N Female	N Female installed at the base	32" Jumper - N Female
Mechanical Specifications	F-33005	F-33048	F-33048-A
Max. Length, in (mm)	2 (51)	2 (51)
Diameter, in (mm)	4.5 (114)	4.5 (114)
Weight, lbs (kg)	0.375 (0.169)	0.375 ((0.169)
Required Minimum Ground Plane Size, in (mm)	8 x 8 (203 x 203)	8 x 8 (20)3 x 203)
Mounting hardware	Not Included	Not In	cluded

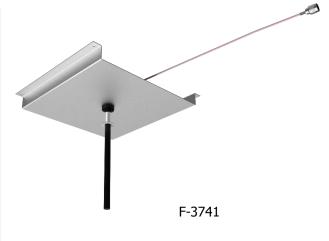


Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

Our antennas can cover single or multiple frequency bands. We offer a wide variety of antennas with Fire Retardant 6200 Kydex radomes. These materials are designed for In-building applications and inside public transport vehicles such as underground trains, vans, buses and trains. They meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

The F-3741 has been designed for mounting with a ground plane on a concrete surface. This is a requirement for meeting full bandwidth specifications. Polycarbonate tubing is used for the radome on the F-3741. It's a flame resistant and self-extinguishing material.

Electrical Specifications	F-3741
Frequency Range, MHz	VHF / UHF/ 760-960
Nominal Gain	Unity
Bandwidth: 2.0:1 VSWR, MHz	
138-174	8
406-512	64
764-890	126
806-960	154
1800-1990	N/A
2400-3000	N/A
Polarization	Vertical
Pattern	Omnidirectional
Power Rating, Watts	50
Nominal Impedance, Ohms	50
Radome	Polycarbonate
Standard Termination	N Male
Mechanical Specifications	F-3741
Length, in (mm)	11.25 (286.88)
Diameter, in (mm)	0.65 (16.575)
Weight, lbs (kg)	N/A
Mounting hardware	Included





TRI-BAND IN-BUILDING ANTENNAS

Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

Our antennas can cover single or multiple frequency bands. We offer a wide variety of antennas with Fire Retardant 6200 Kydex radomes. These materials are designed for In-building applications and inside public transport vehicles such as underground trains, vans, buses and trains. They meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

The F-3749/A/B antennas are available in custom colors for orders of 150 or more.

Electrical Specifications	F-3749	F-3749-A	F-3749-B
Frequency Range, MHz	VHF / UHF/ 760-960	VHF / UHF/ 760-960	VHF / UHF/ 760-960
Nominal Gain	Unity	Unity	Unity
Bandwidth: 2.0:1 VSWR, MHz			
138-174	8	8	8
406-512	64	64	64
764-890	126	126	126
806-960	154	154	154
1800-1990	N/A	N/A	N/A
2400-3000	N/A	N/A	N/A
Polarization	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional
Power Rating, Watts	50	50	50
Nominal Impedance, Ohms	50	50	50
Radome	6200 Kydex	6200 Kydex	6200 Kydex
Mean Time Between Failure	87,000 hours	87,000 hours	87,000 hours
Color	White	White	White
Standard Termination	N Female	2' jumper to N Male or N Female	N Female
Mechanical Specifications	F-3749	F-3749-A	F-3749-B
Max. Length, in (mm)	9.78 (249)	9.78 (2	249)
Diameter, in (mm)	7.0 (178.5)	7.0 (178.5)	
Veight, lbs (kg)	4 (1.8)	4 (1.8)	
Required Minimum Ground Plane Size, in (mm)	14 x 14 (357 x 357)	14 x 14 (357 x 357)	
Nounting hardware	Not Included (see next page)	Not Inc (see next	



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VHF / UHF/ 760-960 MHz

TRI-BAND IN-BUILDING ANTENNAS

VHF / UHF/ 760-960 MHz

Our In-building antennas require a ground plane to work properly. The minimum ground plane size is specified for each antenna. Failure to provide the ground plane may result in poor propagation and/or poor frequency coverage.



Specifications	F-33034	F-33220	F-33135	F-33203	F-33159	F-33105
Fits Antennas	F-3749/A/B	F-3749/B	F-3749/A/B	F-3749/A/B	F-3749/A/B	F-3749/A/B
Ground Plane in	14x14	14x14	24x48	24x24	12x26	14x14
Included with Antenna	No	No	No	No	No	No
Length, in	~16	~16	24	24	12	14
Width, in	14	14	48	24	26	14x5.625







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BROAD BAND IN-BUILDING LOG PERIODIC ANTENNA

This antenna is a broadband antenna that can be used for public safety as well as in cellular bands. It makes an ideal solution for a donor antenna for a DAS system. Our In-building system antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

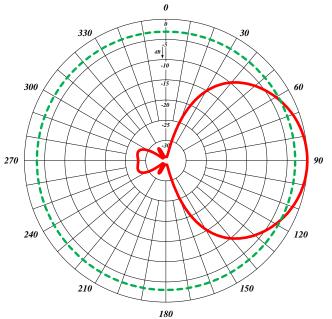
Features:

- Rugged design to withstand the most extreme environmental conditions.
- Extra wide bandwidth for use in multiple bands.



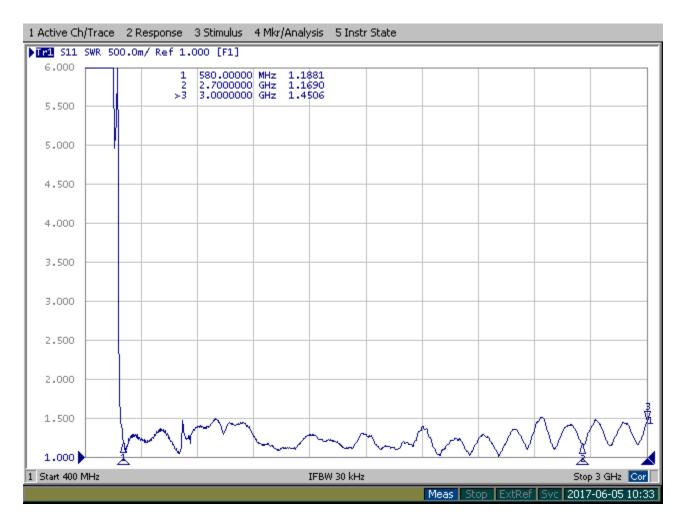
BROAD BAND IN-BUILDING LOG PERIODIC ANTENNA

0 330 dB -10 -15 300 60 -20 Ì 1 270 90 Т ۱ ╋ ۱ 1 120 240 210 150 180



Horizontal Pattern 580-1690 Vertical Polarization

Vertical Pattern 580-1690 Vertical Polarization





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580-2700 MHz

ULTRA-WIDEBAND IN-BUILDING ANTENNA

UWB-1301000-NF

Our In-building antennas are designed to provide excellent coverage solutions in order for external Public Safety Radio Frequencies to propagate within buildings, tunnels or public use environments.

Our latest innovation, the UWB-1301000-NF has been designed for mounting on a ceiling or gyprock wall without the need of a ground plane. This in-building antenna is entirely flat and gets integrated into the ceiling almost invisibly. The antenna's main application includes: usage for Distributed Antenna Systems (DAS) for Public Safety or LTE communication in multiple stories of a building.

Under request, this antenna can be provided with extra protection to meet the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162. A layer of Kydex 6200 of 0.3" thickness can be added to be meet these criterium. Please consult our Technical Support team for more information.

Patent pending.

An ultra-wideband antenna from 380-3000MHz is also available.

Electrical Specifications	UWB-1301000-NF
Frequency Range, MHz	130-1000
Nominal Gain	Unity
VSWR (regardless of the positioning of cable)	1.8:1 Typical (2.0:1 Maximum)
Bandwidth: 1.8:1 VSWR, MHz	870
Pattern	Omnidirectional
Power Handling, Watts	5
Nominal Impedance, Ohms	50
Color	White
Standard Termination	N Female
Mechanical Specifications	UWB-1301000-NF
Diameter, in (mm)	15.25 (387.35)
Thickness, in (mm)	0.07 (1.8)
Weight, lbs (kg)	N/A
Mounting Hardware	Mounting bolts provided



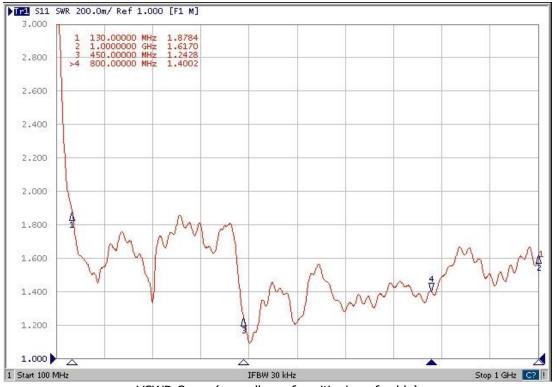


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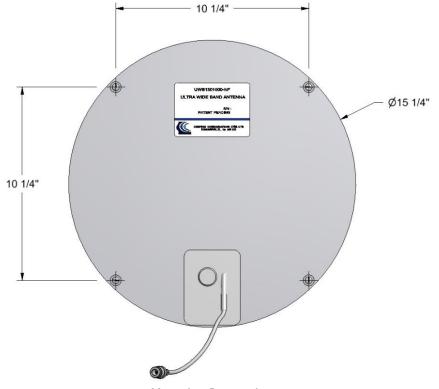
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ULTRA-WIDEBAND IN-BUILDING ANTENNA



VSWR Curve (regardless of positioning of cable)



Mounting Instructions



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130-1000 MHz

BI-DIRECTIONAL AMPLIFIER (BDA)

BDA-40-SERIES (VHF and UHF)

Designed and engineered to meet the fire protection codes (NFPA and IFC standards), our Bi-Directional Amplifier (BDA) features advanced Alarm, Monitoring & Control capabilities ensuring continuous availability of mission-critical services. Certified: FCC and IC.

- Available in VHF and UHF Public Safety bands
- Ideal for indoor applications in commercial and government buildings, parking garages, mining facilities, subway stations and tunnels
- Rack mounted or in NEMA 4/4x waterproof, stainless steel enclosures
- Low noise figure, wide dynamic range
- Visual alarms and remote failure monitoring with Graphical User Interface

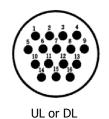
Electrical Specifications	BDA 138174	BDA 380512
Frequency Range, MHz	138-174	380-512
Passband Ripple, dB	+/- 1.5	+/- 1.5
Automatic Gain Control (AGC), dB	30	30
Maximum Gain, dB	+80	+80
Input Manual Attenuation, dB	30 in 2 dB Steps	30 in 2 dB Steps
Output Manual Attenuation, dB	15 in 1 dB Steps	15 in 1 dB Steps
Noise Figure, dB	2	2
Output Power, dBm	30	31.5
VSWR	1.5:1	1.5:1
IP3, dBm (2 tones; 32 dBm each)	50	50
Input Voltage, Volts	AC: 115-220 DC: 48	AC: 115-220 DC: 48
Temperature Range, °C	-30 to +60	-30 to +60
Connectors	N Female	N Female
Alarms	AGC, S/D, Power	AGC, S/D, Power
Mechanical Specifications	BDA 138174	BDA 380512
Enclosure	NEMA 4 Painted Steel	NEMA 4 Painted Steel
Dimensions, in. H, W, D	Depends on filtering	24 x 13.5 x 20

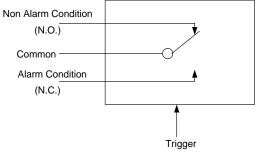
* See next page (p.2) for certification numbers



138-174 & 380-512 MHz

-DIRECTIONAL AMP	LIFIER (BDA)	
Certification Numbers	BDA 138174	BDA 380512
FCC ID	WDM-BDA138174	WDM-BDA380512
IC	7755A-BDA138174	7755A-BDA380512
		Dry Contact Alarn





UL Dry	Contact Alarm connection	DL Dry	DL Dry Contact Alarm connection		
Pin	Description	Pin	Description		
1	NC DC Relay	1	NC DC Relay		
2	COM DC Relay	2	COM DC Relay		
3	NO DC Relay	3	NO DC Relay		
4	NC Oscillation	4	NC Oscillation		
5	COM Oscillation	5	COM Oscillation		
6	NO Oscillation	6	NO Oscillation		
7	NC RF System Failure Relay	7	NC RF System Failure Relay		
8	COM RF System Failure Relay	8	COM RF System Failure Relay		
9	NO RF System Failure Relay	9	NO RF System Failure Relay		
10	NC AC Relay	10	NC AC Relay		
11	COM AC Relay	11	COM AC Relay		
12	NO AC Relay	12	NO AC Relay		
13		13			
14	NC VSWR Donor Antenna Relay	14	NC VSWR Donor Antenna Relay		
15	COM VSWR Donor Antenna Relay	15	COM VSWR Donor Antenna Relay		
16	NO VSWR Donor Antenna Relay	16	NO VSWR Donor Antenna Relay		



BI-DIRECTIONAL AMPLIFIER (BDA)

Monitoring and Cor	ntrol via Built-in via RS-232	2 Connector (USB Optional)		
Monitor	Alarm	Alarm Control			
X/RX System Gain X/RX Attenuation X Input Power X/RX Output Power OC Voltage/Current System Temperature	 TX Input Over Power TX/RX Output Over Power AGC Range Alarm TX/RX Shutdown PSU Alarm Over Temperature VSWR Oscillation 	- HPA On/Off r - Gain - AGC On/Off - Shutdown On/Off - MCU Reset - Alarm Limit			
UDA RF GUI V1.0[20170	818]		_		
	Monitoring				
COM25 Connect	Classification	#1 #2	Alarm		
MENU Status & Control Download Alarm History Maintenance EXIT	OSC Time(min) / Count VSWR	ON ON -55.0 -55.0 5.0 5.0 60.0 60.0 0.0 - 0.0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 0 <	 Input Power #1 Output Power #1 AGC Range #1 ShutDown #1 VSWR #1 OSC #1 Input Power #2 Output Power #2 AGC Range #2 ShutDown #2 VSWR #2 OSC #2 PSU Fail Over Temp Door 		
	HPA Enable Over TEMP Enable	OFF OFF OFF	System DC Voltage(V) 0.00 Current #1(4) 0.00		
	Over TEMP Level(°⊂)	0 .	Current #1(A) 0.00 Current #2(A) 0.00		
l n f o	Maker COMPROD Model Temp 26 °C Time 2	UDA RF Hw Ver 1.0 2017.09.04, 10:51:34 Time set	Sw Ver		
ja ja	TX 🔀 RX 🔽 REFRESH	Environm	ent Repeater Reset CONTROL		

Visual Alarms and Remote Failure Monitoring with Graphical User Interface



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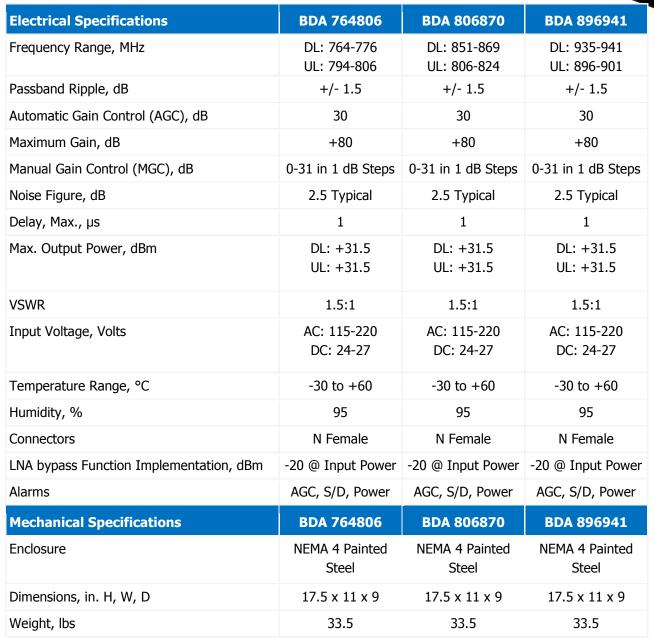
138-174 & 380-512 MHz

BI-DIRECTIONAL AMPLIFIER (BDA)

BDA-40-SERIES

Designed and engineered to meet the fire protection codes (NFPA and IFC standards), our Bi-Directional Amplifier (BDA) features advanced Alarm, Monitoring & Control capabilities ensuring continuous availability of mission-critical services. Certified: FCC and IC.

- Available in 700, 800 and 900 MHz Public Safety bands
- Ideal for indoor applications in commercial and government buildings, parking garages, mining facilities, subway stations and tunnels
- Rack mounted or in NEMA 4/4x waterproof, stainless steel enclosures
- Low noise figure, wide dynamic range
- Visual alarms and remote failure monitoring with Graphical User Interface



* See next page (p.219) for certification numbers



-DIRECTIONAL AMI	PLIFIE	R (BDA)						764-941 M
Certification Numbers	BD	A 764806	BDA	8068	70	BDA 896941		
FCC ID	WDM	1-BDA764806	WDM-	BDA80	6870	WDM-BDA896941		
IC	7755/	A-BDA764806	7755A-	-BDA80	6870	7755A-BDA896941		
		Fo	our Dry	Conta	ict Ala	irms:		
Donor Antenna Ala	rm	AC Curre	ent Ala	rm		DC Current Alarm		RF System Alarm
- Antenna disconnect - Antenna open circu	lit	- AC Pov (Can run oi		-		- DC Power failure	- Shutdown of RF System: - Overheating - Power over limit - VGA malfunction - Other failures	
Relay Shown in Non-Ala A kit of the connector	with labe	eled		Pin	Descri		Pin	Description
wires is supplied with	n the uni	t.		1	NC DC	Relay	9	NO RF System Failure Relay
Alarm Condition				2	COM E	OC Relay	10	NC AC Relay
(N.O.)	•		å , ∳ , ∖	3	NO DO	Relay	11	COM AC Relay
Common ——————————————————————————————————				4			12	NO AC Relay
Alarm Condition		, e e	•	5			13	
(N.C.)	4			6			14	NC Antenna Relay
	Î			7	NC RF	System Failure Relay	15	COM Antenna Relay
Т	rigger			8	COM F	F System Failure Relay	16	NO Antenna Relay

Monitoring and Control via Built-in via RS-232 Connector (USB Optional)					
Monitor Alarm		Control			
- TX/RX System Gain	- TX Input Over Power	- HPA On/Off			
- TX/RX Attenuation	- TX/RX Output Over Power	- Gain			
- TX Input Power	- AGC Range Alarm	- AGC On/Off			
- TX/RX Output Power	- TX/RX Shutdown	- Shutdown On/Off			
- DC Voltage/Current	- PSU Alarm	- MCU Reset			
- System Temperature	- Over Temperature	- Alarm Limit			



BI-DIRECTIONAL AMPLIFIER (BDA)

RF BDA GUI V1.8[20	80122]			
Simplifying RF Solutions	Monitoring			
Connect	Classification	DL	UL	Alarm
MENU Status & Control Download	Input Power(dBm) Output Power(dBm) Gain(dB)	-52.6 30.8 83.5	The lowest input level can be detected is -80dBm -10.1 83.5	 DL Over Input DL Over Power DL AGC Range DL ShutDown
Alarm History Maintenance	AGC(User) Atten(dB)		Environment	 UL Over Power UL AGC Range UL ShutDown
EXIT	AGC Window(dB)	2 ÷ ON 33 ÷	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	 PSU Fail Over Temp Donor Antenna
	AGC Enable ASD Enable HPA OFF Case HPA Enable Over TEMP Enable Over TEMP Level(?)	ON ON ON ON	ON ON ON	System DC Voltage(V) 28.51 Current(A) 0.84
	Maker COMPROD Model Temp 24 ? Time	BDA RF 1Wat		Sw Ver 1.9 Repeater Reset CONTROL

Visual Alarms and Remote Failure Monitoring with Graphical User Interface



764-941 MHz

BATTERY BACKUP SYSTEM

P600-1-24-20

We can supply a Battery backup system that is compatible with our VHF/UHF/700/800 and 900 MHz BDA's and any other 24V BDA on the market. This Battery backup is part of a complete solution for NFPA compliance.

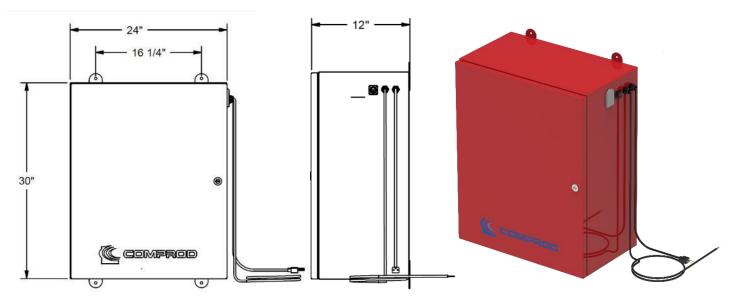
Features:

- Battery and charger/rectifier, up to 24-hour backup time.
- Universal input: 100-250V 1phase-60Hz
- Input protection: AC breaker (1 pole)
- Output: 27Vdc at 20 Amps with less than 100mV ripple
- Load protection: DC breaker (2 poles)
- Dry Contact Alarms for the following conditions:
 - High or Low DC volts
 - o AC Power or Rectifier failure

Battery temperature compensation: to extend the battery life it reduces the charging voltage when temperature exceeds 25° C and increases it when the temperature is lower than 25° C.

Battery Type: VRLA type battery to provide 7.6Amps up to 24-hour backup time and down to 21Vdc end voltage at 25° C.

Cabinet Type: NEMA 4 wall mount: 30" H x 24" W x 12" D with Hydrogen venting in red fire alarm color.



Disclaimer: Actual backup time depends on the actual connected load, battery temperature and aging.



HYBRID & DIRECTIONAL COUPLERS

49-FF-YY-XX Series

We offer a full line of Hybrid and Directional Couplers. The full range of decoupling values allows balanced power division and distribution. These couplers are bidirectional and are well suited for two-way communications systems. A full line of Tri-Band models is available for distribution of VHF, UHF and 800 MHz via a single transmission line. Standard finish is gold Alodine.

- Low Insertion Loss
- High Isolation between ports
- Excellent VSWR
- Tri-Band and other models are available and customizable.
 Please contact our Technical Support team for consultation at sales@comprodcom.com

Model with 5-Watt Load	Frequency Range	Decoupling (dB)	Insertion Loss (dB)	Power Split Ratio (%)
49-13-03-05	138-174MHz	-3.0, ±0.7	-3.0, ±0.3	50 / 50
49-13-48-05	138-174MHz	-4.8, ±0.7	-1.8, ±0.3	67 / 33
49-13-06-05	138-174MHz	-6.0, ±1.0	-1.2, ±0.2	75 / 25
49-13-07-05	138-174MHz	-7.0, ±1.0	-1.0, ±0.2	80 / 20
49-13-10-05	138-174MHz	-10.0, ±1.0	-0.5, ±0.2	90 / 10
49-13-20-05	138-174MHz	-20.0, ±1.0	-0.3 max.	99 / 1
49-38-03-05	380-512MHz	-3.0, ±0.7	-3.0, ±0.3	50 / 50
49-38-48-05	380-512MHz	-4.8, ±0.7	-1.8, ±0.3	67 / 33
49-38-06-05	380-512MHz	-6.0, ±1.0	-1.2, ±0.2	75 / 25
49-38-07-05	380-512MHz	-7.0, ±1.0	-1.0, ±0.2	80 / 20
49-38-10-05	380-512MHz	-10.0, ±1.0	-0.5, ±0.2	90 / 10
49-38-15-05	380-512MHz	-15.0	-0.2 max.	97 / 3
49-38-20-05	380-512MHz	-20.0	-0.2 max.	99 / 1
49-38-30-05	380-512MHz	-30.0	-0.2 max.	99.9 / 0.1
49-74-03-05	760-960MHz	-3.0, ±0.7	-3.0, ±0.3	50 / 50
49-74-48-05	760-960MHz	-4.8, ±0.7	-1.8, ±0.3	67 / 33
49-74-06-05	760-960MHz	-6.0, ±1.0	-1.2, ±0.2	75 / 25
49-74-07-05	760-960MHz	-7.0, ±1.0	-1.0, ±0.2	80 / 20
49-74-10-05	760-960MHz	-10.0, ±1.0	-0.5, ±0.2	90 / 10
49-74-15-05	760-960MHz	-15.0	-0.2 max.	97 / 3
49-74-20-05	760-960MHz	-20.0	-0.2 max.	99 / 1
49-74-30-05	760-960MHz	-30.0	-0.2 max.	99.9 / 0.1



HYBRID & DIRECTIONAL COUPLERS

50-FF-YY-XX Series

We offer a full line of compact couplers covering the frequency ranges from 138-174, 215-300, 350-520 or 740-960 MHz. The full range of coupling values provides balanced power division and distribution. The 50-FF series uses a multilayer bonded PCB design resulting in a high performance compact design.

- Low insertion Loss,
- Excellent return Loss.
- Compact dimensions: 5.0x3.70x1.5 in.
- 3, 4.8, 6, 7, 10, 15, 20, 30 dB values.
- A high power of up to 200 Watts is also available.
- Integrated Mounting Bracket.



With Integrated 5-Watt Load	Frequency Range	Coupling Nom. (dB)	Thruline Loss (dB)	Power Split Ratio (%)
50-13-03-05	138-174MHz	-3.0	-3.0 ±0.3	50 / 50
50-13-48-05	138-174MHz	-4.8	-1.8 ±0.2	67 / 33
50-13-06-05	138-174MHz	-6.0	-1.2 ±0.2	75 / 25
50-13-07-05	138-174MHz	-7.0	-1.0 ±0.2	80 / 20
50-13-10-05	138-174MHz	-10.0	-0.5 ±0.2	90 / 10
50-13-15-05	138-174MHz	-15.0	-0.14 ±0.2	97 / 3
50-13-20-05	138-174MHz	-20.0	-0.04 ±0.2	99 / 1
50-13-30-05	138-174MHz	-30.0	-0.04 ±0.2	99.9 / 0.1
50-21-03-05	215-300MHz	-3.0	-3.0 ±0.3	50 / 50
50-21-48-05	215-300MHz	-4.8	-1.8 ±0.2	67 / 33
50-21-06-05	215-300MHz	-6.0	-1.2 ±0.2	75 / 25
50-21-07-05	215-300MHz	-7.0	-1.0 ±0.2	80 / 20
50-21-10-05	215-300MHz	-10.0	-0.5 ±0.2	90 / 10
50-21-15-05	215-300MHz	-15.0	-0.14 ±0.2	97 / 3
50-21-20-05	215-300MHz	-20.0	-0.04 ±0.2	99 / 1
50-21-30-05	215-300MHz	-30.0	-0.04 ±0.2	99.9 / 0.1



HYBRID & DIRECTIONAL COUPLERS

50-FF-YY-XX Series

We offer a full line of compact couplers covering the frequency ranges from 138-174, 215-300, 350-520 or 740-960 MHz. The full range of coupling values provides balanced power division and distribution. The 50-FF series uses a multilayer bonded PCB design resulting in a high performance compact design.

- Low insertion Loss,
- Excellent return Loss.
- Compact dimensions: 3.0x3.0x1.5 in.
- 3, 4.8, 6, 7, 10, 15, 20, 30 dB values.
- A high power of up to 200 Watts is also available.
- Integrated Mounting Bracket.



With Integrated 5-Watt Load	Frequency Range	Coupling Nom. (dB)	Thruline Loss (dB)	Power Split Ratio (%)
50-35-03-05	350-520MHz	-3.0	-3.0 ±0.3	50 / 50
50-35-48-05	350-520MHz	-4.8	-1.8 ±0.2	67 / 33
50-35-06-05	350-520MHz	-6.0	-1.2 ±0.2	75 / 25
50-35-07-05	350-520MHz	-7.0	-1.0 ±0.2	80 / 20
50-35-10-05	350-520MHz	-10.0	-0.5 ±0.2	90 / 10
50-35-15-05	350-520MHz	-15.0	-0.14 ±0.2	97 / 3
50-35-20-05	350-520MHz	-20.0	-0.04 ±0.2	99 / 1
50-35-30-05	350-520MHz	-30.0	-0.04 ±0.2	99.9 / 0.1
50-74-03-05	740-960MHz	-3.0	-3.0 ±0.3	50 / 50
50-74-48-05	740-960MHz	-4.8	-1.8 ±0.2	67 / 33
50-74-06-05	740-960MHz	-6.0	-1.2 ±0.2	75 / 25
50-74-07-05	740-960MHz	-7.0	-1.0 ±0.2	80 / 20
50-74-10-05	740-960MHz	-10.0	-0.5 ±0.2	90 / 10
50-74-15-05	740-960MHz	-15.0	-0.14 ±0.2	97 / 3
50-74-20-05	740-960MHz	-20.0	-0.04 ±0.2	99 / 1
50-74-30-05	740-960MHz	-30.0	-0.04 ±0.2	99.9 / 0.1



TAPPERS

26-35-YY-NF Series

Mounting Information

We offer a full line of tappers covering the frequency ranges from 350-2700 MHz.

- Low insertion loss. Lower PIM versions available with DIN 7/16 Connector
- Compact dimensions: 5.5 x 1.0 x 1.7 in.
- 5, 6, 10, 15, 20, 30 dB values
- Average power of 200 Watts and with supplied mounting bracket

Electrical Specifications	26-35-YY-NF		
Frequency Range, MHz	350-2700		
Insertion Loss, dB	< 0.1		
VSWR	1.2:1		
Power Rating, Watts	200		
PIM, dBc	150 (2 x 20W carriers)		
Nominal Impedance – In/Out, Ohms	50		
Environmental Specifications	26-35-YY-NF		
Temperature Range, ^o C	-35 to +75		
Mechanical Specifications	26-35-YY-NF		

 Dimensions (H x W x D), in. (mm)
 1.7 x 5.5 x 1.0 (42.9 x 140.6 x 25)

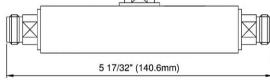
 Connectors
 N Female

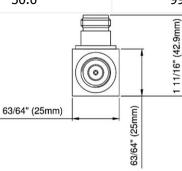
Mounting bracket supplied



Mounting Bracket

Model	Frequency Range	Split Ratio (dB)	Power Ratio (%)
26-35-05-NF	350-2700 MHz	5.0	70 / 30
26-35-06-NF	350-2700 MHz	6.0	75 / 25
26-35-10-NF	350-2700 MHz	10.0	90 / 10
26-35-15-NF	350-2700 MHz	15.0	97 / 3
26-35-20-NF	350-2700 MHz	20.0	99 / 1
26-35-30-NF	350-2700 MHz	30.0	99.9 / 0.1
			(IIIII) E







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350-2700 MHz

TAPPERS

26-69-YY-NF Series

We offer a full line of tappers covering the frequency ranges from 698-2700 MHz.

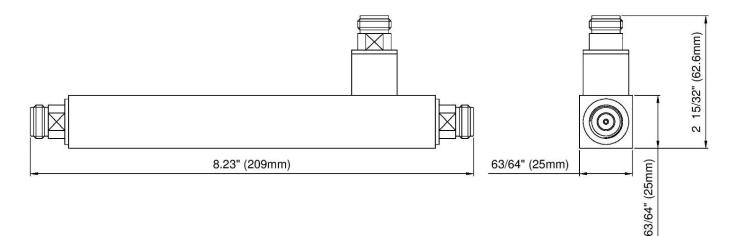
- Low insertion loss. Low PIM versions available with DIN 7/16 Connector
- Compact dimensions: 8.2 x 1.0 x 2.5 in. with 5, 6, 10, 15 dB values
- Average power of 200 Watts and with supplied mounting bracket

Electrical Specification	ons	26-69-YY-NF			
Frequency Range, MHz		698-2700			
Insertion Loss, dB		<	< 0.1		
VSWR		1.2:1			
Power Rating, Watts		:	200		
PIM, dBc		150 (2 x 2	150 (2 x 20W Carriers)		
Nominal Impedance – I	n/Out, Ohms		50		
Environmental Speci	fications	26-69	26-69-YY-NF		
Temperature Range, ^o C	2	-35	-35 to +75		
Mechanical Specifications		26-69-YY-NF			
Mechanical Specifica	tions	26-69	9-YY-NF		
Mechanical Specifica Dimensions (H x W x D			9-YY-NF) (62.6 x 209 x 25)		
-		2.5 x 8.23 x 1.0			
Dimensions (H x W x D		2.5 x 8.23 x 1.0 N F) (62.6 x 209 x 25)		
Dimensions (H x W x D Connectors		2.5 x 8.23 x 1.0 N F Mounting b) (62.6 x 209 x 25) Temale racket supplied		
Dimensions (H x W x D Connectors Mounting Information), in. (mm)	2.5 x 8.23 x 1.0 N F Mounting b) (62.6 x 209 x 25) Temale racket supplied		
Dimensions (H x W x D Connectors Mounting Information Model), in. (mm) Frequency Range	2.5 x 8.23 x 1.0 N F Mounting bi Split Ratio (dB)) (62.6 x 209 x 25) Female racket supplied Power Ratio (%)		
Dimensions (H x W x D Connectors Mounting Information Model 26-69-05-NF), in. (mm) Frequency Range 698-2700 MHz	2.5 x 8.23 x 1.0 N F Mounting bi Split Ratio (dB) 5.0	o (62.6 x 209 x 25) Female racket supplied Power Ratio (%) 70 / 30		





Mounting Bracket





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698-2700 MHz

TAPPERS

26-69-YY-NF Series

We offer a full line of tappers covering the frequency ranges from 698-2700 MHz.

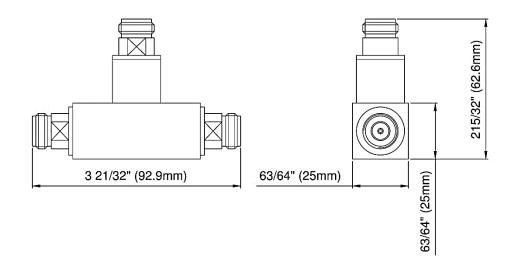
- Low insertion loss. Low PIM versions available with DIN 7/16 Connector
- Compact dimensions: 3.7 x 1.0 x 2.5 in. with 20, 30 dB values
- Average power of 200 Watts and with supplied mounting bracket

Electrical Specification	ons	26-69-YY-NF			
Frequency Range, MHz		698-2700			
Insertion Loss, dB		<	< 0.1		
VSWR		1	1.2:1		
Power Rating, Watts			200		
PIM, dBc		150 (2 x 2	20W Carriers)		
Nominal Impedance – In/Out, Ohms			50		
Environmental Specifications		26-69-YY-NF			
Temperature Range, ^o C		-35 to +75			
Mechanical Specifications		26-69-YY-NF			
Dimensions (H x W x D), in. (mm)		2.5 x 3.66 x 1.0 (62.6 x 92.9 x 25)			
Connectors		N Female			
Mounting Information		Mounting bracket supplied			
Model	Frequency Range	Split Ratio (dB)	Power Ratio (%)		
26-69-20-NF	698-2700 MHz	20.0	99 / 1		
26-69-30-NF	698-2700 MHz	30.0	99.9 / 0.1		





Mounting Bracket





2-WAY POWER SPLITTERS

27-35-02-NF

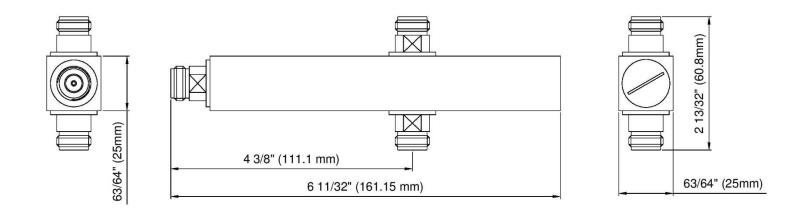
We offer a full line of splitters covering the frequency range of 350-2700 MHz. Available in a 2-way or 3-way configuration.

- Low insertion loss. Low PIM versions available with DIN 7/16 Connector
- Compact dimensions: 6.3 x 1.0 x 2.4 in.
- 3 dB values
- Average power of 300 Watts and with supplied mounting bracket

Electrical Specifica	ations		27-3	5-02-NF	
Frequency Range, M	Hz		350-2700		
Insertion Loss, dB				< 0.1	
VSWR			-	1.2:1	
Power Rating, Watts				300	
PIM, dBc			150 (2 x	20W carriers)	
Nominal Impedance	– In/Out, Ohms			50	
Environmental Sp	ecifications		27-35-02-NF		
Temperature Range,	°C		-35 to +75		
Mechanical Specif	ications		27-35-02-NF		
Dimensions (H x W >	c D), in. (mm)		2.4 x 6.3 x 1.0 (60.8 x 161.15 x 25)	
Connectors			NI	emale	
Mounting Informatio	n	Mounting bracket supplied			
Model	Frequency Range	S	olit Ratio (dB)	Power Ratio (%)	
27-35-02-NF	350-2700 MHz		3.0	50	



Mounting Bracket





350-2700 MHz

3-WAY POWER SPLITTERS

27-35-03-NF

We offer a full line of splitters covering the frequency range of 350-2700 MHz. Available in a 2-way or 3-way configuration.

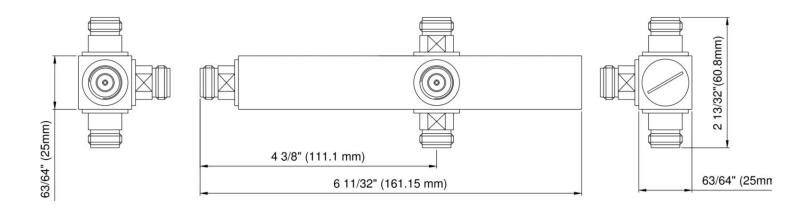
- Low insertion loss. Low PIM versions available with DIN 7/16 Connector
- Compact dimensions: 6.3 x 1.0 x 2.4 in.
- 5 dB values
- Average power of 300 Watts and with supplied mounting bracket

Electrical Specific	ations		27-3	5-03-NF	
Frequency Range, M	1Hz		350-2700		
Insertion Loss, dB				< 0.1	
VSWR				1.2:1	
Power Rating, Watts	5			300	
PIM, dBc			150 (2 x	20W carriers)	
Nominal Impedance – In/Out, Ohms			50		
Environmental Sp	ecifications		27-35-03-NF		
Temperature Range	, °C		-35 to +75		
Mechanical Specif	fications		27-35-03-NF		
Dimensions (H x W	x D), in. (mm)		2.4 x 6.3 x 1.0	(60.8 x 161.15 x 25)	
Connectors			Ν	Female	
Mounting Information			Mounting bracket supplied		
Model	Frequency Range	S	plit Ratio (dB)	Power Ratio (%)	
27-35-03-NF	350-2700 MHz		5.0	33	





Mounting Bracket





Ordering Information





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Base Station Antennas

OUND PLANE ANTENNA Page							
Order Information	Black Anodized	406-430 MHz	430-450 MHz	450-470 MHz	118-136 MHz	136-148 MHz	148-174 MHz
265-70	N/A				265-70*1	265-70*2	265-70*3
266-70		N	/A		266-70*1	266-70*2 (1	36-174 MHz)
267-70	267-70-В	267-70-В N/А			267-70	N	/A
268-70	N/A	N/A 268-70*1 268-70*2 268-70*3				N/A	

MNIDIRECTIONAL ANTENNA SERIES Page 12							Page 12			
Order Information	30-35 MHz	35-40 MHz	40-45 MHz	45-50 MHz	50-80 MHz	406-430 MHz	430-450 MHz	450-470 MHz	740-900 MHz	806-960 MHz
201-70	201-70*1	201-70*2	201-70*3	201-70*4	201-70*5			N/A		
301-70			N/A			301-70*1	301-70*2	301-70*3	N,	/Α
401-70		N/A				401-70*1	401-70*2			

COLLINEAR OMNIDIRECTIONAL ANTENNA Page 1						
	Order Information	746-806 MHz	806-869 MHz	885-960 MHz		
	Model	928-70*1	928-70*2	928-70*3		

(POSED DIPOLE ANTENNA Page 1									
Order Information	30-32	32-34	34-36	36-38	38-41	41-44	44-47	47-50	
	MHz								
531-70	531-70*1	531-70*2	531-70*3	531-70*4	531-70*5	531-70*6	531-70*7	531-70*8	
532-70	532-70*1	532-70*2	532-70*3	532-70*4	532-70*5	532-70*6	532-70*7	532-70*8	
531-70-HD	531-70-	531-70-	531-70-	531-70-	531-70-	531-70-	531-70-	531-70-	
	HD*1	HD*2	HD*3	HD*4	HD*5	HD*6	HD*7	HD*8	
532-70-HD	532-70-	532-70-	532-70-	532-70-	532-70-	532-70-	532-70-	532-70-	
	HD*1	HD*2	HD*3	HD*4	HD*5	HD*6	HD*7	HD*8	



FM	FM EXPOSED DIPOLES Page								
	Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized			
	871F-70-F	871A-70-F	871F-70-FHD	871F-70-FSM	871F-70-FTM	871F-70-FHDB			
	872F-70-F	872A-70-F	872F-70-FHD	872F-70-FSM	872F-70-FTM	872F-70-FHDB			
	874F-70-F	874A-70-F	874F-70-FHD	874F-70-FSM	874F-70-FTM	874F-70-FHDB			

VHF EXPOSED DIPOLES (870 Series Aviation)

Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871F-70-A	871A-70-A	871F-70-AHD	871F-70-ASM	871F-70-ATM	871F-70-AHDB
872F-70-A	872A-70-A	872F-70-AHD	872F-70-ASM	872F-70-ATM	872F-70-AHDB
874F-70-A	874A-70-A	874F-70-AHD	874F-70-ASM	874F-70-ATM	874F-70-AHDB

VHF EXPOSED DIPOLES (870 Series)

Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871F-70	871A-70	871F-70HD	871F-70SM	871F-70TM	871F-70HDB
872F-70	872A-70	872F-70HD	872F-70SM	872F-70TM	872F-70HDB
874F-70	874A-70	874F-70HD	874F-70SM	874F-70TM	874F-70HDB

VHF EXPOSED DIPOLES (870 LM Series) – Without Mast

Order Information	Heavy Duty	Black Anodized	With Mast
871A-70-LM	871A-70-LMHD	871A-70-LMHDB	871A-70
872A-70-LM	872A-70-LMHD	872A-70-LMHDB	872A-70
874A-70-LM	874A-70-LMHD	874A-70-LMHDB	874A-70

VHF EXPOSED DIPOLES (830 Light Duty Series)

Order Information	148-162 MHz	160-174 MHz
832-70	832-70*1	832-70*2
834-70	834-70*1	834-70*2



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AVIATION EXPOSED DIPOLE ARRAY					
	Order Information	Heavy Duty	Black Anodized		
	882-70-A	882-70-AHD	882-70-AHDB		
	884-70-A	884-70-AHD	884-70-AHDB		

VHF EXPOSED DIPOLE ARRAY		Page	e 31
Order Information	Heavy Duty	Black Anodized	
882-70	882-70-HD	882-70-HDB	
884-70	884-70-HD	884-70-HDB	

22	0MHz EXPOSED D	PIPOLES		Pag	e 34	
	Order Information	Heavy Duty	Side Mount	Top Mount	Black Anodized	
	871F-70-2	871F-70-2HD	871F-70-2SM	871F-70-2TM	871F-70-2HDB	
	872F-70-2	872F-70-2HD	872F-70-2SM	872F-70-2TM	872F-70-2HDB	
	874F-70-2	874F-70-2HD	874F-70-2SM	874F-70-2TM	874F-70-2HDB	

UHF EXPOSED DIPOLES (770 Series)

Order Information	406-470 MHz	450-512 MHz	Side Mount	Top Mount	Heavy Duty	Welded	Black Anodized
771-70	771-70 (40)6-512 MHz)	771-70-SM	771-70-TM	771-70-HD	771-70-HDW	771-70-HDB
772-70	772-70 (40)6-512 MHz)	772-70-SM	772-70-TM	772-70-HD	772-70-HDW	772-70-HDB
774-70	774-70 (40)6-512 MHz)	774-70-SM	774-70-TM	N/A (Available	774-70-HDW	774-70-HDB
778-70	778-70*1	778-70*2	778-70-SM	778-70-TM	as HD and Welded)	778-70-HDW	778-70-HDB

UHF EXPOSED DIPOLES (780 Series)

Order Information	Heavy Duty	Black Anodized	406-470MHz	450-512MHz
782-70	782-70-HD	782-70-HDB	782-70*1	782-70*2
784-70	784-70-HD	784-70-HDB	784-70*1	784-70*2



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DU	DUAL EXPOSED DIPOLE ARRAY Page 4							
	Order Information	Frequency	Equivalent to	40 dB Isolation	Side Mount	Top Mount	Black Anodized	
	776-70	406-512MHz	Dual 772-70	776-70-40	776-70-SM	776-70-TM	776-70-HDB	
	876F-70	138-174MHz	Dual 872-70	876F-70-40	876F-70-SM	876F-70-TM	876F-70-HDB	

DUAL ANTENNA ARRAY

Order Information	Side Mount	Top Mount	Heavy Duty	Black Anodized
F-3676	F-3676-SM	F-3676-TM	F-3676-HD	F-3676-HDB
F-3661	F-3661-SM	F-3661-TM	F-3661-HD	F-3661-HDB
F-3647	F-3647-SM	F-3647-TM	F-3647-HD	F-3647-HDB

VHF EXPOSED DIPOLES WITH REFLECTORS

Order Information	Side Mount	Top Mount	Black Anodized
F-3729	F-3729-SM	F-3729-TM	F-3729-SMB
F-3713	F-3713-SM	F-3713-TM	F-3713-SMB
F-3766	F-3766-SM	F-33228 (Mid Mount)	F-3766-SMB

790 SERIES ENCI	OSED DIPOLE		Page	e 49
Order Information		746-896MHz	806-960MHz	
792-70		792-70*1	792-70*2	
794-70		794-70*1	794-70*2	
799-70		799-70*1	799-70*2	

790 SERIES ENCLOSED DIPOLE WITH REFLECTOR

Order Information	746-896MHz	806-960MHz
792-70-R	792-70-R*1	792-70-R*2
794-70-R	794-70-R*1	794-70-R*2
799-70-R	799-70-R*1	799-70-R*2



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/H	F YAGI ANTENI	A						Page	e 5
	Order Information	End Mount	Extended Boom	Center Flound		Heavy Duty	Black Anodized	(2) Stacked	
	291-70	291-70		N/A	291-70-W	291-70-HD	291-70-В	N/A	
	295-70	295-70	N/A	295-70-CB	295-70-W	295-70-HD	295-70-В	N/A	
	290-70	290-70	290-70-EB	290-70-CB	290-70-W	290-70-HD	290-70-В	298-70	
	250-70	250-70	250-70	N/A	250-70-W	250-70-HD	250-70-В	Call	

220MHz YAGI ANTENNA

Order Information	Extended Boom	Welded	Heavy Duty	Black Anodized	(2) Stacked
291-70-2	291-70-2EB	291-70-2W	291-70-2HD	291-70-2HDB	N/A
295-70-2	295-70-2EB	295-70-2W	295-70-2HD	295-70-2HDB	N/A
290-70-2	290-70-2EB	290-70-2W	290-70-2HD	290-70-2HDB	298-70-2

UHF YAGI ANTENNA

Order Information	380-400 MHz	406-430 MHz	430-450 MHz	450- MF		470-490 MHz	490-512 MHz	Black Anodized	(2) Stacked	(4) Stacked
F-3872	N/A	F-3872*1	F-3872*2	F-3872*3 F-3872*4 F-3872*5 F-3872-B		N/	Ά			
433-70	N/A	433-70*1	433-70*2	433-7	70*3	433-70*4	433-70*5	433-70-В	N/	Ά
430-70	430-70*6	430-70*1	430-70*2	430-7	70*3	430-70*4	430-70*5	430-70-В	431-70	(4)430-70
480-70	N/A	480-70 ³	*1 (406-470MF	Hz)	48	30-70*2 (450-	512MHz)	480-70-B	(2)480-70	(4)480-70

980 YAGI ANTENNAS SERIES Page 61 Order 746-806 764-870 806-869 824-896 896-960 (2) Stacked 982-70 900-930 MHz offered N/A 983-70 983-70*1 983-70*2 983-70*3 983-70*4 983-70-B N/A N/A 980-70*5 980-70 980-70*1 980-70*2 980-70*3 980-70*4 980-70-B 981-70 987-70 987-70*1 987-70*2 987-70*3 987-70*4 (2)987-70 N/A 987-70-B



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49	490 HEAVY-DUTY YAGI ANTENNAS SERIES Page 64										
	Order Information	806-869 MHz	824-896 MHz	896-960 MHz	Black Anodized	(2) Stacked	With Radome				
	490-70-HD	490-70-HD*1	490-70-HD*2	490-70-HD*3	490-70-HDB	491-70-HD	490-70-HDR (See below)				

RADOME YAGI ANTENNA

								-
Order Information	(2) Stacked	(4) Stacked	406-430 MHz	430-450 MHz	450-470 MHz	806-869 MHz	824-896 MHz	896-960 MHz
425-70-HDR	(2)425-70-HDR	(4)425-70-HDR	425-70- HDR*1	425-70- HDR*2	425-70- HDR*3		N/A	
426-70-R	(2)426-70-R	(4)426-70-R	426-70-R*1	426-70-R*2	426-70-R*3	N/A 490-70- 490-70- HDR*1 HDR*2		
490-70-HDR	(2)490-70-HDR	(4)490-70-HDR	490-70	-HDR*4 (746-80)6MHz)			490-70- HDR*3

UHF CORNER REFLECTOR

Order Information	406-470 MHz	448-512 MHz	406-430 MHz	430-450 MHz	450-470 MHz		
440-70	440-70*1	440-70*2		N/A			
440-70-HD	440-70-HD*1	440-70-HD*2	N/A				
442-70-HD	442-70-HD*1	442-70-HD*2	N/A				
365-70-HD	N/A		365-70-HD*1	365-70-HD*2	365-70-HD*3		

PARABOLIC DIRECTIONAL ANTENNA P									
	Frequency	Order Information	Black Anodized	With Radome					
	764-836 MHz	965-70-HD*1	965-70-HDB*1	965-70-HDBR*1					
	824-896 MHz	965-70-HD*2	965-70-HDB*2	965-70-HDBR*2					
	896-960 MHz	965-70-HD*3	965-70-HDB*3	965-70-HDBR*3					

LOG PERIODIC ANTENNA (VHF)

Order Information	End Mount	Center Mount
635-70	635-70	636-70
655-70 (2) Stacked	655-70	N/A
638-70	638-70	N/A



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LOG PERIODIC ANTENNA (UHF) Page 79										
Order Information	406-440MHz	435-470MHz	406-470MHz	450-470MHz	470-512MHz					
15-70	415-70*1	415-70*2	N/A		415-70*3					
165-70	N	/A	465-70*1	465	465-70*2					

Filters

ND PASS CA									Pag	
Order Information			Single		Dual 61-FF-42			Triple 61-FF-43		
4" x 4" Cavity			61-FF-41							
6.625" Cavity			61-FF-71 61-FF-01		61-FF-72			61-FF-73		
10" Cavity	10" Cavity				61-FF-02			61-FF-03		
Order Information	138-150 MHz	148-174 MHz	308-406 MHz	406-420 MHz	420-430 MHz	430-450 MHz	450-470 MHz	470-490 MHz	490-512 MHz	
61-FF-X1	61-1	4-X1	61-38-X1							
61-FF-X2	61-13-X2	61-14-X2	61-38-X2	61-40-X2	61-42-X2	61-43-X2	61-45-X2	61-47-X2	61-49-X2	
61-FF-X3	61-13-X3	61-14-X3	61-38-X3	61-40-X3	61-42-X3	61-43-X3	61-45-X3	61-47-X3	61-49-X3	

PASS-REJECT CAVITY

Order Information			Single		D	ual		Triple		
4" x 4" Cavity			62-FF-41 62-FF		62-FF-42		62-FF-43			
6.625" Cavity			62-FF-71 62-FF-72		F-72	2 62-FI		3		
10" Cavity			62-FF-01 62-FF-02			62-FF-03				
Order Information	138-150 MHz	148-174 MHz	308-406 MHz	406-420 MHz	420-430 MHz	430-450 MHz	450-470 MHz	470-490 MHz	490-512 MHz	
					1.112	1-1112		1.1.12	11112	
62-FF-X1	62-1	4-X1				62-38-X1			MITZ	
62-FF-X1 62-FF-X2	62-1 62-13-X2	4-X1 62-14-X2	62-38-X2	62-40-X2	62-42-X2		62-45-X2	62-47-X2	62-49-X2	



TCH CAVIT	Y								Pag	
Order Information			Single		Dual			Triple		
4" x 4" Cavity	Cavity			63-FF-41		63-FF-42		63-FF-43	3	
6.625" Cavity 10" Cavity			63-FF-71 63-FF-01		63-FF-72 63-FF-02			63-FF-73 63-FF-03		
Order Information	138-150 MHz	148-174 MHz	308-406 MHz	406-420 MHz	420-430 MHz	430-450 MHz	450-470 MHz	470-490 MHz	490-512 MHz	
63-FF-X1	63-14-X1		63-38-X1							
63-FF-X2	63-13-X2	63-14-X2	63-38-X2	63-40-X2	63-42-X2	63-43-X2	63-45-X2	63-47-X2	63-49-X2	
63-FF-X3	63-13-X3	63-14-X3	63-38-X3	63-40-X3	63-42-X3	63-43-X3	63-45-X3	63-47-X3	63-49-X3	

MF BAND PASS MUL	IF BAND PASS MULTICOUPLER VHF (4" x 4")						
Order Information	138-150 MHz	148-174 MHz					
60-FF-43	63-13-43	63-14-43					

MF BAND PASS MUL	IF BAND PASS MULTICOUPLER VHF (7")							
Order Information	138-150 MHz	148-174 MHz						
60-14-71	63-1	-14-71						
60-FF-72	63-13-72	63-14-72						
60-FF-73	63-13-73	63-14-73						

XMF BAND PASS MULTICOUPLER UHF (4" x 4")										
	Order Information	308-406 MHz	406-420 MHz	420-430 MHz	430-450 MHz	450-470 MHz	470-490 MHz	490-512 MHz		
	60-FF-43	60-38-43	60-40-43	60-42-43	60-43-43	60-45-43	60-47-43	60-49-43		



MF BAND PASS MULTICOUPLER VHF (7")							Page 104
Order Information	308-406 MHz	406-420 MHz	420-430 MHz	430-450 MHz	450-470 MHz	470-490 MHz	490-512 MHz
60-38-71				60-38-71			
60-FF-72	60-38-72	60-40-72	60-42-72	60-43-72	60-45-72	60-47-72	60-49-72
60-FF-73	60-38-73	60-40-73	60-42-73	60-43-73	60-45-73	60-47-73	60-49-73

PASS-REJECT DUPLEXER

Order Information	138-150 MHz	148-174 MHz	308-406 MHz	406-430 MHz	430-450 MHz	450-470 MHz	470-512 MHz
66-FF-74	66-13-74	66-14-74	66-38-74	66-40-74	6643F-74	66-45-74	66-47-74
66-FF-76	66-13-76	66-14-76	-	-	-	-	-

4-INCH CAVITY PASS-REJECT DUPLEXERS (66-FF-44)

Order Information	138-174 MHz	380-406 MHz	406-470 MHz	470-512 MHz	746-806 MHz	806-896 MHz	896-960 MHz
66-FF-44	66-13-44	66-38-44	66-40-44	66-47-44	66-74-44	66-80-44	66-89-44
Wall Mount	66-13-44-WM	66-38-44-WM	66-40-44-WM	66-47-44-WM	66-74-44-WM	66-80-44-WM	66-89-44-WM

4-INCH CAVITY PASS-REJECT DUPLEXERS (66-FF-46)

Order Information	138-174 MHz	380-406 MHz	406-470 MHz	470-512 MHz	746-806 MHz	806-896 MHz	896-960 MHz
66-FF-46	66-13-46	66-38-46	66-40-46	66-47-46	66-74-46	66-80-46	66-89-46
Wall Mount	66-13-46-WM	66-38-46-WM	66-40-46-WM	66-47-46-WM	66-74-46-WM	66-80-46-WM	66-89-46-WM

4-INCH CAVITY MOBILE DUPLEXERS

Order Information	144-155 MHz	150-165 MHz	160-174 MHz	406-435 MHz	430-470 MHz
534-90	534-90*1	534-90*2	534-90*3	-	-
504-90	-	-	-	504-90*1	504-90*2



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INCH CAVITY	MOBILE DUP	LEXERS	NCH CAVITY MOBILE DUPLEXERS						
Order Information	144-155 MHz	150-165 MHz	160-174 MHz	406-435 MHz	430-470 MHz	470-512 MHz			
536-90	536-90*1	536-90*2	536-90*3	-	-	-			
506-90	-	-	-	506-90*1	506-90*2	506-90*3			

X-PASS CAVITY

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Order Information	Single
4" x 4" Cavity	68-FF-41
6.625" Cavity	68-FF-71
10" Cavity	68-FF-01

EXPANDABLE TRANSMIT COMBINER (7" and 10") 108-1000 MHz

Order Information	Single Channel	2 - Channel	3 - Channel	4 - Channel	5 - Channel	6 - Channel	8 - Channel
4" Cavity	XTC-FF-41D	XTC-FF-42D	XTC-FF-43D	XTC-FF-44D	XTC-FF-45D	XTC-FF-46D	XTC-FF-48D
6.625" Cavity	XTC-FF-71D	XTC-FF-72D	XTC-FF-73D	XTC-FF-74D	XTC-FF-75D	XTC-FF-76D	XTC-FF-78D
10" Cavity	XTC-FF-01D	XTC-FF-02D	XTC-FF-03D	XTC-FF-04D	XTC-FF-05D	XTC-FF-06D	XTC-FF-08D

up to 12 channels configuration available

EXPANDABLE TX COMBINER 80 SERIES

8N - FF - 8X ILX ILB P I

8N	1,2	Number of Cavities per TX	
FF	First 2 digits of Freq.	38-94=380-940 MHz	Example: Model # 81-45-84BAHD
8X	1-6	Number of Channels	TX Combiner, 1 cavity per channel, UHF
ILX	A=1 B=1.5 C=2	X Pass Insertion Loss	450-470MHz, 4 Channel, Each X-pass cavity
ILB	A=None B=0.5 C=1 D=1.5	Band Pass Insertion Loss	set @ 1.5 dB, No BP Cavity, 100-Watt system, Dual Isolators
Р	L/H	Power level (Low = 60W, High = 100W)	
I	S/D	Single or Double Isolator Stages	_



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RECEIVER MULTIC	CEIVER MULTICOUPLER (138-225 MHz)						
Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply	Preselectors		
XRM-13-02	XRM-13-02-RM	XRM-13-02-CM	XRM-13-02-TRM	XRM-13-02-PS	XRM-13-02-P		
XRM-13-04	XRM-13-04-RM	XRM-13-04-CM	XRM-13-04-TRM	XRM-13-04-PS	XRM-13-04-P		
XRM-13-08	XRM-13-08-RM	XRM-13-08-CM	XRM-13-08-TRM	XRM-13-08-PS	XRM-13-08-P		
XRM-13-16	XRM-13-16-RM	XRM-13-16-CM	XRM-13-16-TRM	XRM-13-16-PS	XRM-13-16-P		

*with preselectors, the receiver multicoupler is offered in frequency splits. (138-150MHz or 148-174MHz)

RECEIVER MULTICOUPLER (380-512 MHz)

Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply	Preselectors
XRM-38-02	XRM-38-02-RM	XRM-38-02-CM	XRM-38-02-TRM	XRM-38-02-PS	XRM-38-02-P
XRM-38-04	XRM-38-04-RM	XRM-38-04-CM	XRM-38-04-TRM	XRM-38-04-PS	XRM-38-04-P
XRM-38-08	XRM-38-08-RM	XRM-38-08-CM	XRM-38-08-TRM	XRM-38-08-PS	XRM-38-08-P
XRM-38-16	XRM-38-16-RM	XRM-38-16-CM	XRM-38-16-TRM	XRM-38-16-PS	XRM-38-16-P

*with preselectors, the receiver multicoupler is offered in frequency splits. (380-406MHz, 406-430MHz, 450-470MHz or 470-512MHz)

RECEIVER MULTICOUPLER (806-896 MHz)

Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply	Preselectors
XRM-80-02	XRM-80-02-RM	XRM-80-02-CM	XRM-80-02-TRM	XRM-80-02-PS	XRM-80-02-P
XRM-80-04	XRM-80-04-RM	XRM-80-04-CM	XRM-80-04-TRM	XRM-80-04-PS	XRM-80-04-P
XRM-80-08	XRM-80-08-RM	XRM-80-08-CM	XRM-80-08-TRM	XRM-80-08-PS	XRM-80-08-P
XRM-80-16	XRM-80-16-RM	XRM-80-16-CM	XRM-80-16-TRM	XRM-80-16-PS	XRM-80-16-P

*with preselectors, the receiver multicoupler is offered in frequency splits. (806-824MHz or 824-849MHz)

RECEIVER MULTICOUPLER (896-960 MHz)

Order	Rack Mount	Cavity Mount	Tray Mount	Power Supply	Preselectors
XRM-90-02	XRM-90-02-RM	XRM-90-02-CM	XRM-90-02-TRM	XRM-90-02-PS	XRM-90-02-P
XRM-90-04	XRM-90-04-RM	XRM-90-04-CM	XRM-90-04-TRM	XRM-90-04-PS	XRM-90-04-P
XRM-90-08	XRM-90-08-RM	XRM-90-08-CM	XRM-90-08-TRM	XRM-90-08-PS	XRM-90-08-P
XRM-90-16	XRM-90-16-RM	XRM-90-16-CM	XRM-90-16-TRM	XRM-90-16-PS	XRM-90-16-P

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*with preselectors, the receiver multicoupler is offered in frequency splits. (896-901MHz)



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EXPANDABLE RECEIVER MULTICOUPLER

9	W	-	FF	-	РР	С	BB	
9		S	eries	90				
W			1,2			Numb	er of Pa	ass Windows
FF			79			794-8	06 MHz	2
		80			806-824 MHz			
	Firs	First 2 digits of Freq.			380-512 MHz			
		38/4	0/43/	45/4	17			
РР		2,4	4,8,16	,24		Numb	er of Po	orts
С	N/B			N or BNC Connectors		nnectors		
BB	02/	03/0	6/12/	15/1	8/30	Bandv	vidth in	MHz

Example: Model # 91-85-8N18 RX Multicoupler, 1 Pass Window, 806MHz, 8 Output Ports, N female, 18 MHz Bandwidth

TOWER TOP AMPLIF	IER (TTA)				Page 1	L 25
Order Information	TTA-40-00	TTA-70-00	TTA-79-00	TTA-80-00	TTA-90-00	
Frequency, MHz	406-512	794-806	792-824	806-824	896-902	

RECEIVER AMPLIFIERS						
Order Information	58-13-19	58-40-19	58-74-19			
Frequency MHz	138-174	406-512	740-960			

OW POWER SINGLE ISOLATORS (21-FF-PP)					Page
Order Information	5-Watt Load	25-Watt Load	60-Watt Load	100-Watt Load	150-Watt Load
21-13-XX	21-13-05	21-13-25	21-13-60	21-13-100	21-13-150
21-40-XX	21-40-05	21-40-25	21-40-60	21-40-100	21-40-150
21-76-XX	21-76-05	21-76-25	21-76-60	21-76-100	21-76-150

XX = load size



LOW POWER DUAL ISOLATORS (22-FF-PP)

Order Information	5-Watt Load	25-Watt Load	60-Watt Load	100-Watt Load	150-Watt Load
22-13-XX	22-13-05	22-13-25	22-13-60	22-13-100	22-13-150
22-40-XX	22-40-05	22-40-25	22-40-60	22-40-100	22-40-150
22-76-XX	22-76-05	22-76-25	22-76-60	22-76-100	22-76-150

XX = load size

HIGH POWER SINGLE ISOLATORS (41-FF-PP)

Order Information	5-Watt Load	25-Watt Load	60-Watt Load	100-Watt Load	150-Watt Load
41-13-XX	41-13-05	41-13-25	41-13-60	41-13-100	41-13-150
41-40-XX	41-40-05	41-40-25	41-40-60	41-40-100	41-40-150
41-76-XX	41-76-05	41-76-25	41-76-60	41-76-100	41-76-150
VV load size					

XX = load size

HIGH POWER DUAL ISOLATORS (42-FF-PP)

5-Watt Load	25-Watt Load	60-Watt Load	100-Watt Load	150-Watt Load
42-13-05	42-13-25	42-13-60	42-13-100	42-13-150
42-40-05	42-40-25	42-40-60	42-40-100	42-40-150
42-76-05	42-76-25	42-76-60	42-76-100	42-76-150
	42-13-05 42-40-05	42-13-0542-13-2542-40-0542-40-25	42-13-0542-13-2542-13-6042-40-0542-40-2542-40-60	42-13-0542-13-2542-13-6042-13-10042-40-0542-40-2542-40-6042-40-100

XX = load size

X-BAND COUPLER

Order Information	19" Rack Mount	Tower Mount	Tray Mount	Without Bracket
XBC-02-38	XBC-02-38-RM	XBC-02-38-TM	XBC-02-38-TRM	XBC-02-38-WB
XBC-02-38R	XBC-02-38R-RM	XBC-02-38R-TM	XBC-02-38R-TRM	XBC-02-38R-WB
XBC-38-80	XBC-38-80-RM	XBC-38-80-TM	XBC-38-80-TRM	XBC-38-80-WB
XBC-38-80R	XBC-38-80R-RM	XBC-38-80R-TM	XBC-38-80R-TRM	XBC-38-80R-WB
XBC-38-80RX	XBC-38-80RX-RM	XBC-38-80RX-TM	XBC-38-80RXTRM	XBC-38-80RX-WB



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Notes :	



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