



COMPROD

Creating RF Solutions

ANTENNA & FILTER TECHNOLOGY



ANTENNA & FILTER TECHNOLOGY

COMPROD COMMUNICATIONS LTD

High Quality • Dependable Performance • Excellent Technical Support



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COMPROD COMMUNICATIONS LTD
High Quality • Dependable Performance • Excellent Technical Support

Our Mission

Comprod Communications Ltd, is a leading RF Antenna and Filter manufacturer providing some of the most innovative and customized products on the market. We are dedicated to our customers, providing Top Notch quality products, backed by the best Customer Service and Technical Support Departments in our industry.

Our Vision

Our vision is to be the world's most dynamic RF Telecommunications Company, a Leader in Antenna and Filter Design, essential to the Evolution of our Industry. To have our Antennas on Every Tower and to have our Filters at Every Site, Globally.

Comprod Communications has become an industry leader in the design, manufacturing, and assembly of RF Antennas, Filters, and In-Building Systems World Wide. Specializing in the customized approach to development and integration, Comprod is now one of the most innovative companies in our field, designing a vast array of products, continually redesigning how we can satisfy our customers continually changing needs. Comprod brings you an extensive range of innovative products drawn from our wealth of superior engineering, design, extended manufacturing experience and rigorous quality control. Certified under ISO 9001:2008 quality assurance standards. We operate in the 27MHz to 3.5GHz frequency range, customizing and manufacturing durable and quality driven base station antennas and filtering devices:

Filters

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

Antennas

- In-Building Antennas (Dual/Tri/Quad Band)
- Base Station Antennas (Heavy Duty Versions Available)
- Mobile Antennas
- Transit Antennas
- AM/FM Disguise Antennas (Covert Applications)



At Comprod, we believe in a long term relationship with our customers. We are continually working with our customers to increase their market shares, co-develop new markets, open the communication channels between our company and theirs, as well as being extremely flexible to meet our customers needs and demands.

Comprod is dedicated to providing a long list of added value services, such as R&D, consulting, system advice and design, customized products to meet our customers exact needs, and a premium customer service program. We have the ability to manufacture custom products or modify existing products in order to meet our clients exact needs. This flexibility has allowed us to become an extension of the companies we work with, to become a business-to-business partner, rather than just a standard supplier.

Comprod's R&D and technical team can fulfill your telecommunication needs and requirements in a vast array of applications. Products are developed with our own standards of excellence and manufactured with state-of-the-art machinery and equipment for customers who appreciate superior performance.

Comprod is committed to excellence to its clients, employees, and suppliers through:

- Design, Manufacture, & Produce Innovative and Quality Products
- Deliver Products, Systems and Services which fully meet customers' needs and expectations at a cost effective price
- Provide Outstanding Customer Service and Technical Support
- Maintain a Highly Skilled and Dedicated Workforce

For more information on Comprod Communications X-Pass, Multicouplers, Duplexers, Pass-Reject, BandPass, or Notch filters, please do not hesitate to contact our team of Technical Support at **1.800.603.1454** or **1.450.641.1454**.

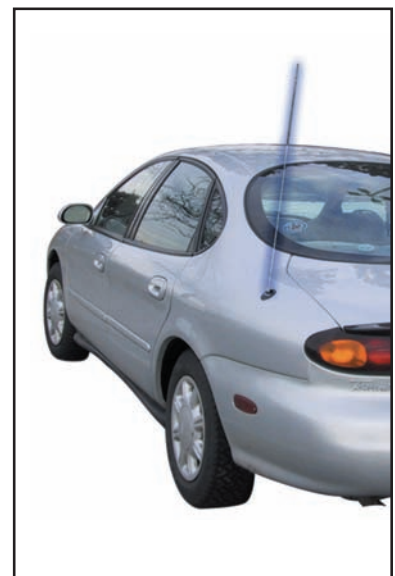
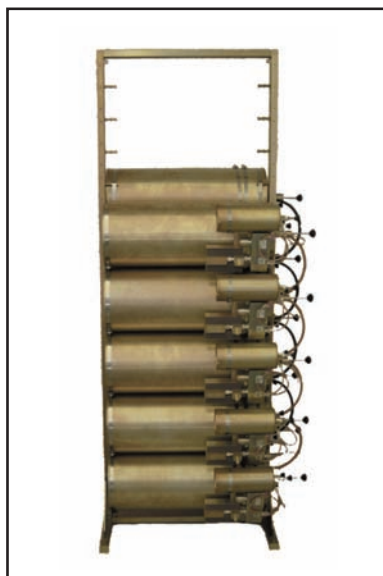


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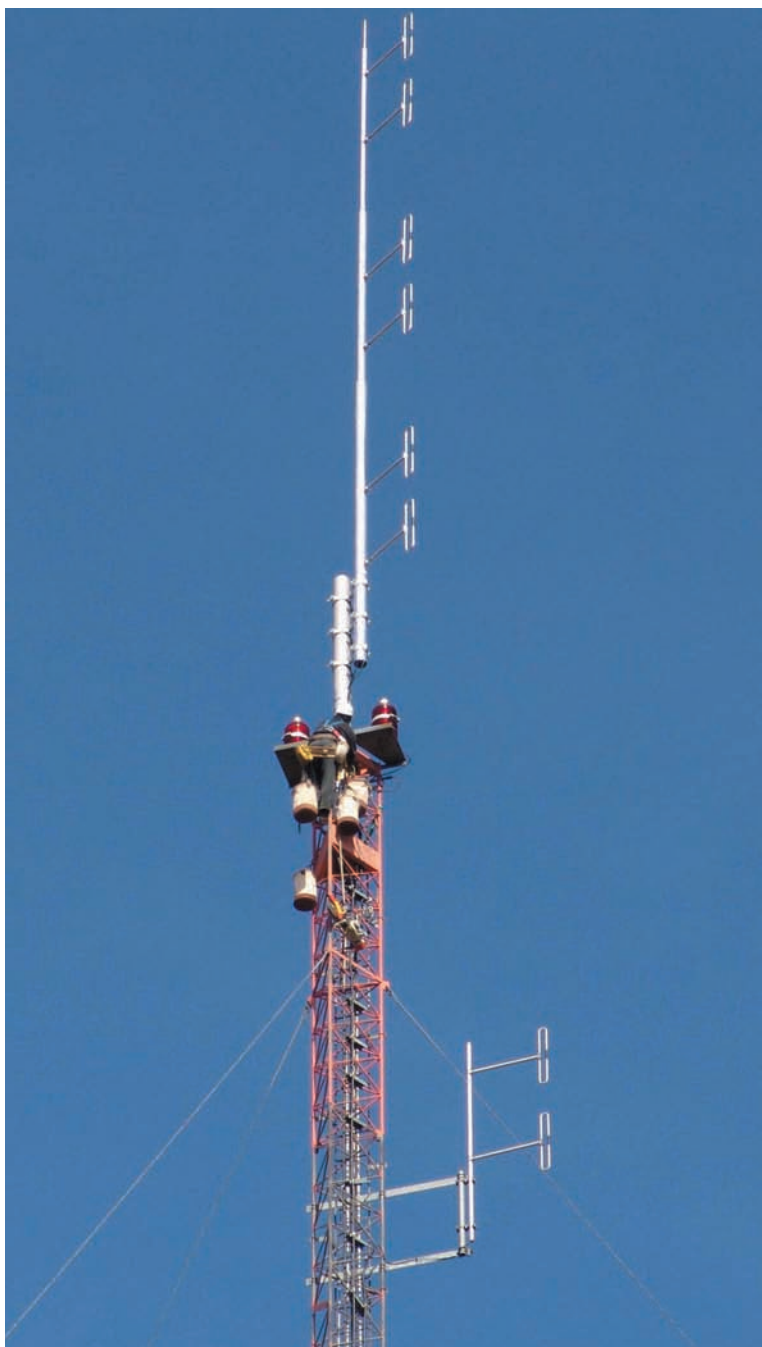
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BASE STATION

Our Base Station antennas are some of the best products on the market. We pride ourselves on producing antennas that will stand up to severe environmental conditions, and outperform your electrical expectations; our antennas are customizable to meet your specific needs.

We are known in the industry for having both standard antennas as well as our Ultra Heavy Duty Antenna Line – **the Avalanche Series** (call for more information). Most of our antennas can be modified and/or strengthened to withstand over 200MPH winds with massive ice and snow loadings. We have also included an electrically charge protective coating, Black Anodization, that incorporates a black dye to increase de-icing efficiency and protect against corrosive elements such as Salt Air, Oxidization, and certain environmental factors.

Our antennas are completely customizable. Here are some suggested options:

1. **Heavy Duty** – Oversized, Hyper-Strengthened, Over Designed.
2. **Welded Versions** – All Mechanical Junctions are welded where possible to increase loading strength, ideal for high winds and icing conditions.
3. **Black Anodized** – An Electrically Charged Protective Coating w/Black Dye, particularly good for Heavy Icing and Corrosive Environments.
4. **Cable Lengths** – Usually 2ft is standard, Feed line can be adapted to your needs (up to 125ft).
5. **Connectors** – Usually N Type is our standard connector, but this can be factory altered as required (SMA, TNC, DIN 7/16, etc.).
6. **Custom Mounting Configurations** – This depends on the style of antenna; please call our Technical Service Department for further information.
7. **Custom Antennas** – Our full-time R&D Department is available for all of your unique product applications. Please call our Technical Service Department for further information.
8. **Low PIM** – Our new line of low PIM antennas reduce mechanical junctions dramatically, and use double shielded coaxial cable (multiple versions available).



CP Ground Plane Antenna Series

The Ground Plane Antenna Series are available in VHF and UHF configurations. These Omnidirectional antennas are wide band Unity or Gain antennas. They are constructed from high strength corrosion resistant aluminum alloy and stainless steel. All of our antennas can be completely customized to your particular applications.

- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- Wide band Frequency 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.



267-70

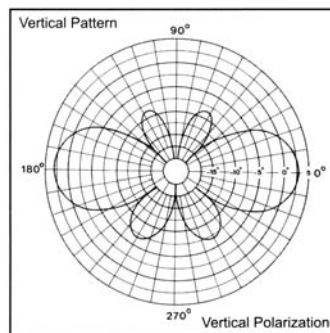
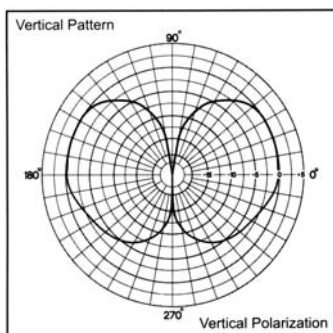
Electrical Specifications	265-70	266-70	267-70	268-70
Frequency Range, MHz	108-174	118-174	118-136	406-470
Nominal Gain, dBd	Unity	2-3.0	Unity	2-3.0
Bandwidth: 1.5:1 VSWR, MHz (% Ctr. Freq.)	6%	1%	15.6% (2:1)	1%
Tuning	Field Adj.	Field Adj.	Fixed	Field Adj.
Polarization	Vertical	Vertical	Vertical	Vertical
Vertical Beamwidth (Ver. Pol)	80°	40°	71°	38°
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				
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 (km/h)	140 (225)	85 (137)	110 (177)	85 (137)
Lateral Thrust @ 100mph wind, lbs (kg)	31.8 (14.4)	40 (18.1)	24 (10.7)	7.3 (3.3)
Bending Moment @ top clamp: 100mph, ft*lb (kg*m)	41 (5.7)	94 (13)	28 (3.9)	1.6 (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	167-85 Clamp	167-85 Clamp	167-85 Clamp	167-85 Clamp

Order Information	Black Adnodge	406-430	430-450	450-470	118-136	136-148	148-174
265-70	n/a	n/a	n/a	n/a	265-70*1	265-70*2	265-70*3
266-70	n/a	n/a	n/a	n/a	266-70*1	266-70*2	266-70*2
267-70	267-70B	n/a	n/a	n/a	267-70	n/a	n/a
268-70	n/a	268-70*1	268-70*2	268-70*3	n/a	n/a	n/a



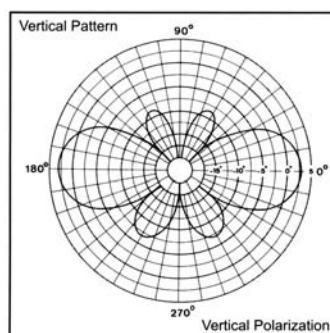
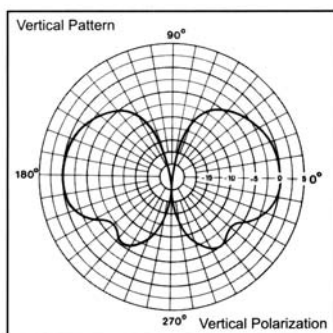
265-70



266-70



267-70

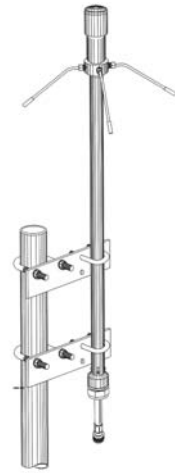


268-70

CP Omni directional Antenna Series

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

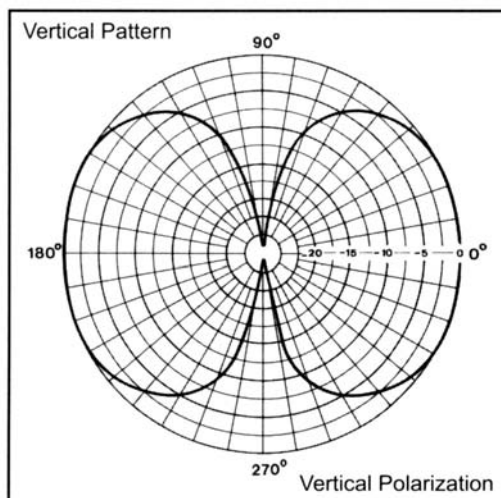
- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- The mounting hardware supplied will permit 0.75" to 2.38" O.D. pipe installation.
- DC ground for lightning protection.
- Because of the very large bandwidth, these are ideal antennas to stock, whether for re-use or resale.



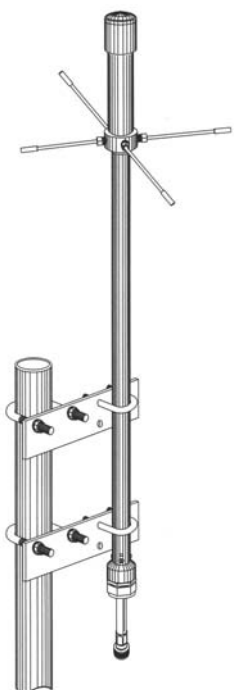
401-70

Electrical Specifications	201-70	301-70	401-70
Frequency Range, MHz	25-174MHz	406-512	700-960
Nominal Gain, dBd	Unity	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz	2%	20	10%
Polarization	Vertical	Vertical	Vertical
Vertical Beamwidth (Ver. Pol)	78°	75°	75°
Pattern	Omni	Omni	Omni
Power Rating, Watts	500	100	100
Nominal Impedance, Ohms	50	50	50
Lightning Protection	Star Gap	DC Ground	DC Ground
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications			
Max Length, in (mm)	229 (5817)	24 (610)	21 (533)
Skirt Diameter, in (mm)	2.625 (67)	n/a	n/a
Whip Diameter, in (mm)	0.75 (19)	n/a	n/a
Weight, lbs (kg)	17 (7.7)	1.4 (0.7)	1 (0.45)
Rated Wind Velocity: No Ice, mph (km/h)	115 (185)	150 (241)	150 (241)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	n/a	100 (161)	100 (161)
Lateral Thrust @ 100mph wind, lbs (kg)	67 (30.4)	3.9 (1.8)	3.4 (1.6)
Bending Moment @ top clamp: 100mph, ft*lb (kg*m)	308 (42.6)	1.84 (0.25)	1.87 (0.26)
Projected Area, ft ² (m ²)	2.5 (0.23)	0.15 (0.014)	0.13 (0.019)
Mounting Hardware	1.7" (42mm) O.D.	167-85 Clamp	167-85 Clamp

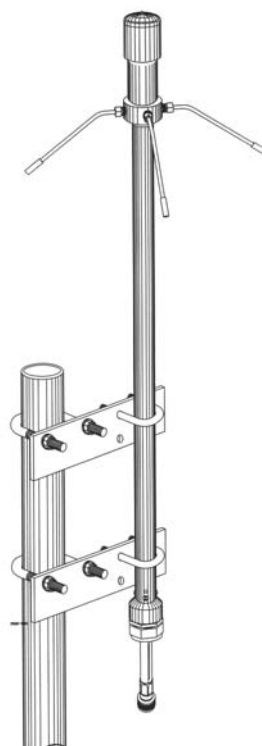
Order Information	406-430MHz	430-450MHz	450-470MHz	746-806MHz	806-896MHz	896-960MHz
201-70	n/a	n/a	n/a	n/a	n/a	n/a
301-70	301-70*1	301-70*2	301-70*3	n/a	n/a	n/a
401-70	n/a	n/a	n/a	401-70*1	401-70*2	401-70*3



201-70



301-70

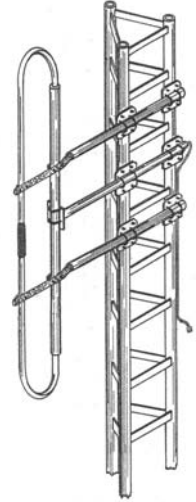


401-70

CP Low Band Exposed Dipole Antenna Series

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 material is oversized.

- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- Supplied with Anti-Torque supports
- The mounting hardware supplied will permit 1^{1/4}" – 2^{3/8}" tower leg installation, other clamping configurations are offered.
- DC ground for lightning protection.
- Can be Black Anodized for enhanced Anti-Corrosion and De-Icing properties



531-70HD

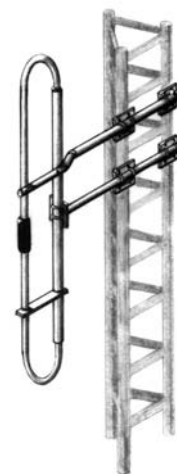
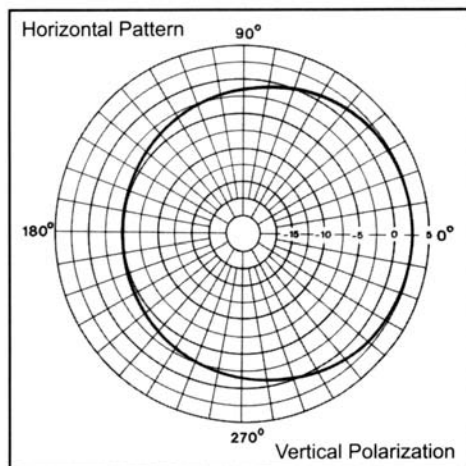
Electrical Specifications	531-70	531-70HD	532-70	532-70HD
Frequency Range, MHz	30-76	30-76	30-76	30-76
Nominal Gain, dBd	2.5	2.5	5.5	5.5
Bandwidth: 1.5:1 VSWR, MHz	7%	7%	7%	7%
Polarization	Vertical	Vertical	Vertical	Vertical
Pattern	UniDirect.	UniDirect.	UniDirect.	UniDirect.
Power Rating, Watts	300	300	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				
Length @ 30MHz, in (mm)	189 (4800)	189 (4800)	472 (11989)	472 (11989)
Width, in (mm)	87 (2210)	87 (2210)	87 (2210)	87 (2210)
Weight, lbs (kg)	37 (17)	43 (19.5)	79 (36)	91 (41)
Rated Wind Velocity: No Ice, mph (km/h)	143 (230)	200 (322)	143 (230)	200 (322)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	98 (158)	160 (258)	98 (158)	160 (258)
Lateral Thrust @ 100mph wind, lbs (kg)	133 (60.8)	160 (72.3)	266 (121.6)	320 (144.6)
Projected Area, ft ² (m ²)	4.98 (0.46)	5.94 (0.55)	9.96 (0.92)	11.88 (1.10)
Mounting Hardware (not included)	(4) 1.25"-2.38"	(6) 1.25"-2.38"	(8) 1.25"-2.38"	(12) 1.25"-2.38"

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

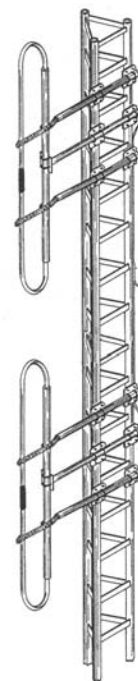
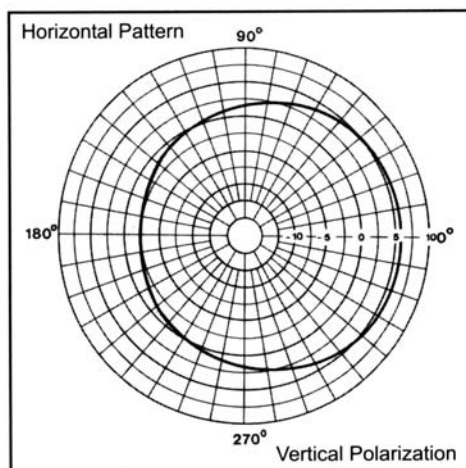
To order the Black Anodized version add suffix B to the model number, available on the Heavy Duty version only.
Example: 531-70HDB*1



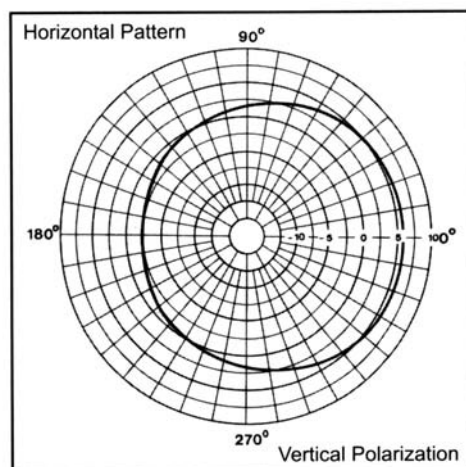
532-70



531-70



532-70HD



CP870 FM Series Exposed Dipoles

The 870 FM Series Exposed Dipoles are available in 1, 2, 4 dipole configurations. All of 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 many version of Heavy Duty Ruggedness.

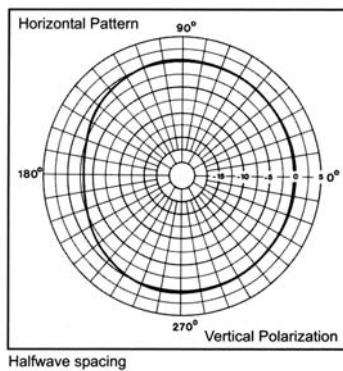
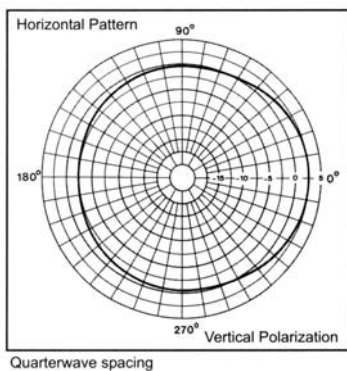
- Each antenna is offered in a 1/4 or 3/8 wave spacing versions
- The 87XA-70 has an external cabling and has a field adjustable pattern
- The 87XF-70 has an internal cabling and fixed dipole-mast spacing
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation



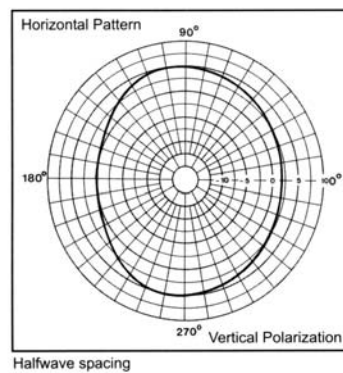
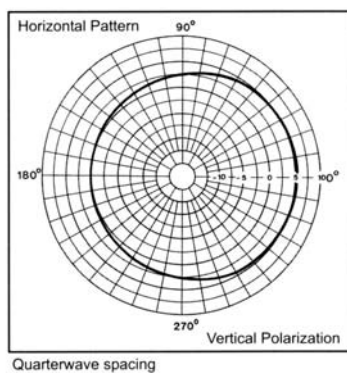
872F-70FM

Electrical Specifications	871F-70FM	872F-70FM	874F-70FM
Frequency Range, MHz	88-108	88-108	88-108
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 Male	Type N Male	Type N Male
Mechanical Specifications			
Length, in (mm)	114 (2896)	198 (5029)	350 (8890)
Width (3/8 Wave Spacing), in (mm)	47 (1194)	47 (1194)	49 (1245)
Weight, lbs (kg)	19.1 (8.7)	37 (16.8)	137 (62)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	128 (206)	105 (169)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	118 (190)	100 (161)	84 (135)
Lateral Thrust @ 100mph wind lbs (kg)	75 (34)	139 (63)	332 (151)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	60 (8.2)	596 (82)	3565 (493)
Projected area ft ² (m ²)	2.8 (0.26)	5.3 (0.49)	12.5 (1.17)
Mounting Information	Mast 2.4" (61mm) O.D.	Mast 2.4" (61mm) O.D.	Mast 3.5" (89mm) O.D.

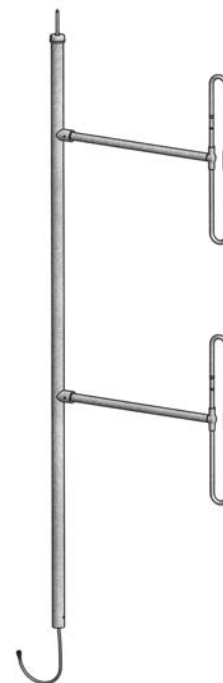
Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871-70FM	871A-70FM	871F-70FMHD	871F-70FMSM	871F-70FMTM	871F-70FMHDB
872-70FM	872A-70FM	872F-70FMHD	872F-70FMSM	872F-70FMTM	872F-70FMHDB
874-70FM	874A-70FM	874F-70FMHD	874F-70FMSM	874F-70FMTM	874F-70FMHDB



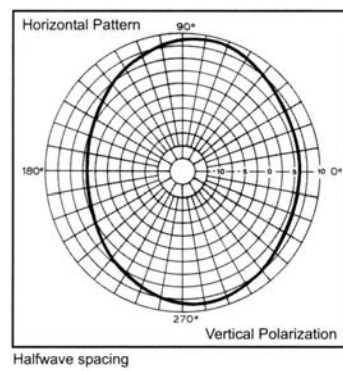
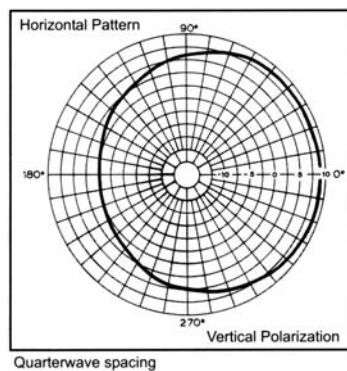
871F-70FM



874F-70FM



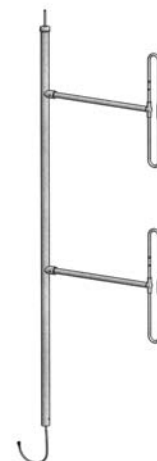
872F-70FM



CP870 Series VHF Exposed Dipoles

The 870 Series AV – Aviation Series VHF Exposed Dipoles are available in 1, 2, 4, 8, and dual dipole configurations. All of 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 many version of Heavy Duty Ruggedness.

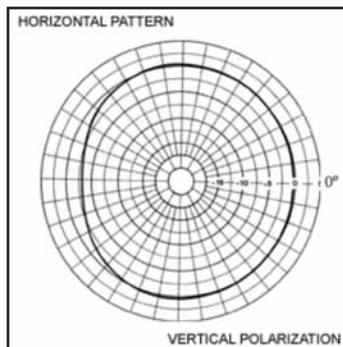
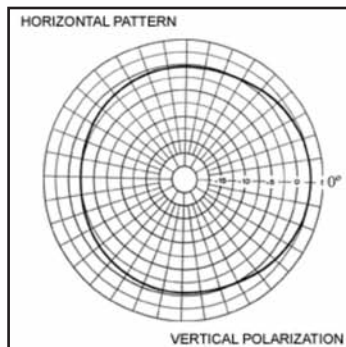
- Each antenna is offered in a 1/4, 3/8, or 1/2 wave versions
- The 87XA-70 has an external cabling and has a field adjustable pattern.
- The 87XF-70 has an internal cabling and fixed dipole-mast spacing.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



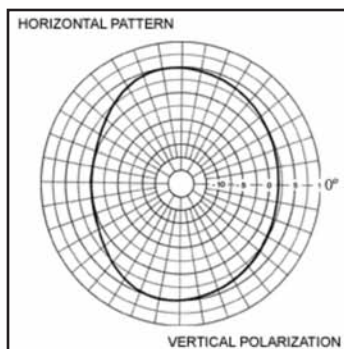
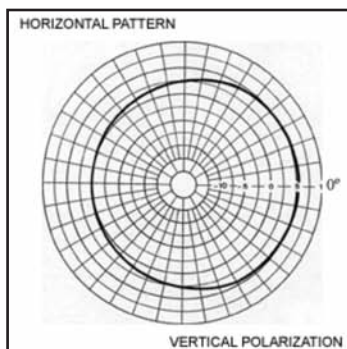
872F-70AV

Electrical Specifications	871F-70AV	872F-70AV	874F-70AV
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 Male	Type N Male	Type N Male
Mechanical Specifications			
Length, in (mm)	78 (1981)	162 (4115)	294 (7468)
Width (1/2 Wave Spacing), in (mm)	54 (1372)	54 (1372)	55 (1397)
Weight, lbs (kg)	16 (7.3)	31 (14.1)	93 (42)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	145 (3341)	120 (193)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	105 (169)	100 (161)	95 (153)
Lateral Thrust @ 100mph wind lbs (kg)	57 (26)	120 (54.5)	231 (105)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	82 (11)	420 (58)	1437 (199)
Projected Area ft ² (m ²)	2.2 (0.2)	4.6 (0.43)	8.8 (0.82)
Mounting Information	Mast 2.4" (61mm) O.D.	Mast 2.4" (61mm) O.D.	Mast 2.9" (73mm) O.D.

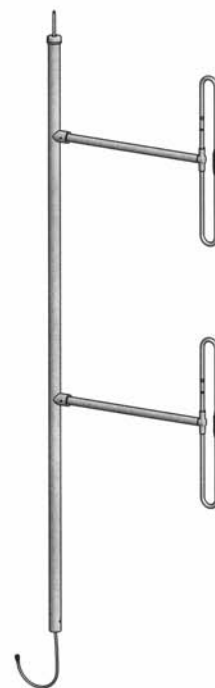
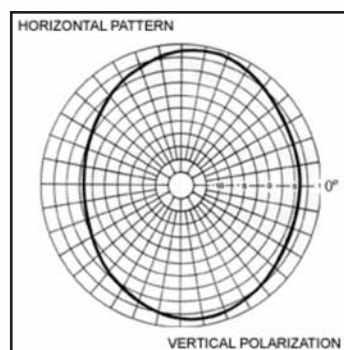
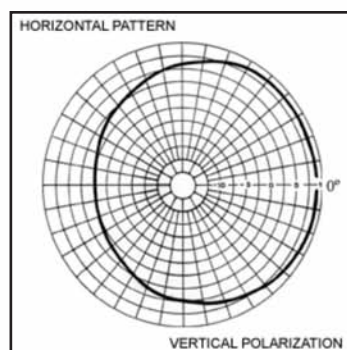
Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871-70AV	871A-70AV	871F-70AV-HD	871F-70AV-SM	871F-70AV-TM	871F-70AV-HDB
872-70AV	872A-70AV	872F-70AV-HD	872F-70AV-SM	872F-70AV-TM	872F-70AV-HDB
874-70AV	874A-70AV	874F-70AV-HD	874F-70AV-SM	874F-70AV-TM	874F-70AV-HDB



871F-70AV



874F-70AV



872F-70AV

CP870 Series VHF Exposed Dipoles

The 870 Series VHF Exposed Dipoles are available in 1, 2, 4, 8, dipole and dual dipole configurations. All of 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 many version of Heavy Duty Ruggedness.

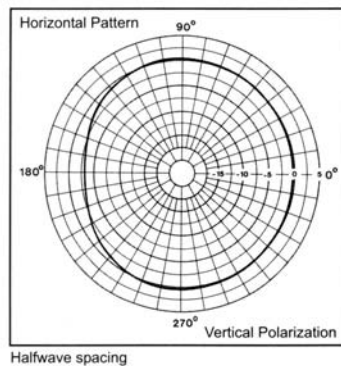
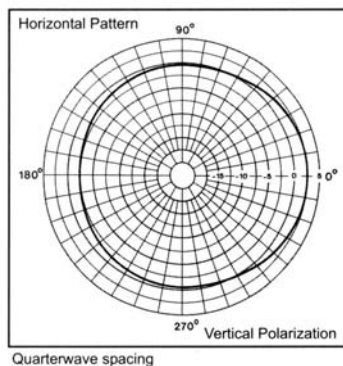
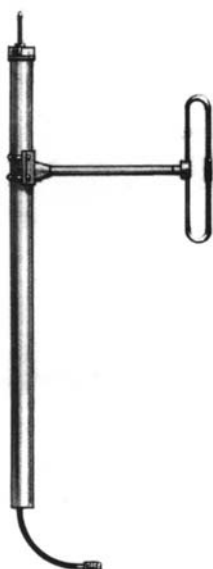
- Each antenna is offered in a 1/4, 3/8, or 1/2 wave versions.
- The 87XA-70 has an external cabling and has a field adjustable pattern.
- The 87XF-70 has an internal cabling and fixed dipole-mast spacing.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



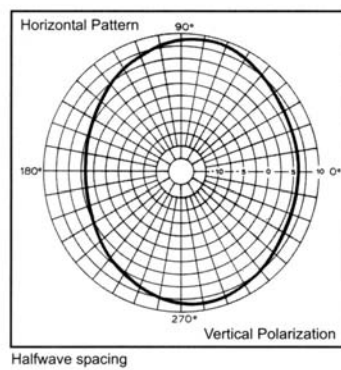
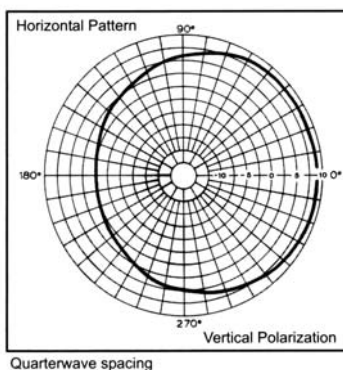
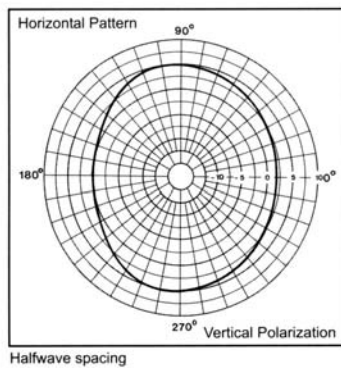
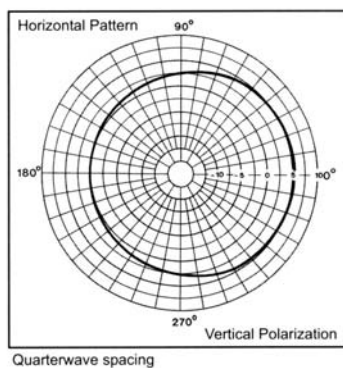
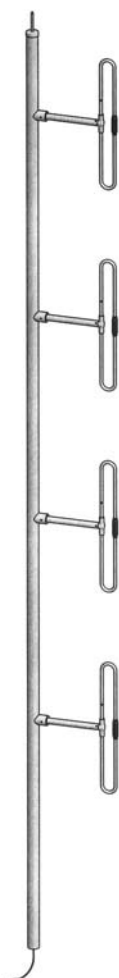
872F-70

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	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 Male	Type N Male	Type N Male
Mechanical Specifications			
Length, in (mm)	78 (1981)	126 (3200)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	40 (1016)	40 (1016)	40 (1016)
Weight, lbs (kg)	11.8 (5.4)	24 (10.8)	67 (30)
Rated Wind Velocity: No Ice, mph (km/h)	170 (241)	150 (241)	145 (233)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	145 (217)	135 (217)	95 (153)
Lateral Thrust @ 100mph wind lbs (kg)	45 (20.5)	92 (41.7)	160 (72.6)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	18 (2.5)	205 (28.4)	1364 (188.7)
Projected Area ft ² (m ²)	1.7 (0.16)	3.5 (0.33)	7 (0.65)
Mounting Information	Mast 1.9" (48mm) O.D.	Mast 2.4" (61mm) O.D.	Mast 2.9" (61mm) O.D.

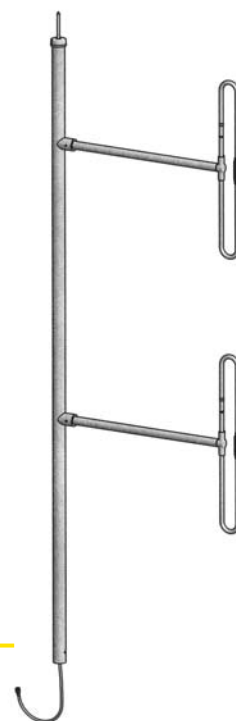
Order Information	Adjustable	Heavy Duty	Side Mount	Top Mount	Black Anodized
871-70	871A-70	871F-70HD	871F-70SM	871F-70TM	871F-70HDB
872-70	872A-70	872F-70HD	872F-70SM	872F-70TM	872F-70HDB
874-70	874A-70	874F-70HD	874F-70SM	874F-70TM	874F-70HDB



871F-70



874F-70

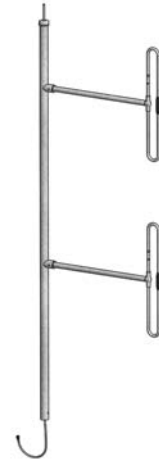


872F-70

CP870 Series 220MHz Exposed Dipoles

The 870 Series 220MHz Exposed Dipoles are available in 1, 2, 4, 8, dipole configurations. All of 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 many version of Heavy Duty Ruggedness.

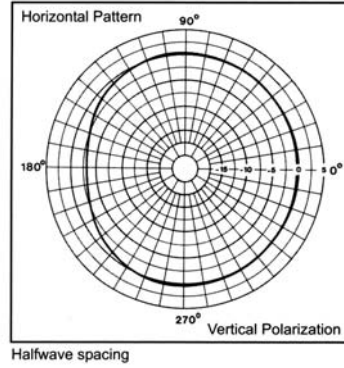
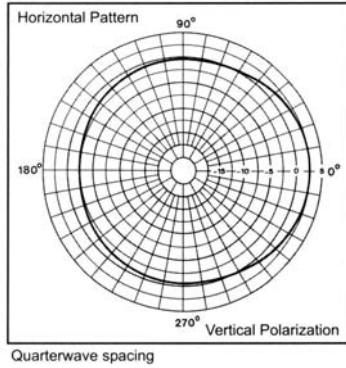
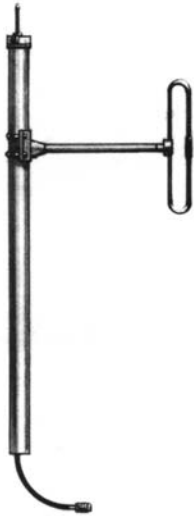
- Each antenna is offered in a 1/4, 3/8, or 1/2 wave versions.
- The 87XA-70-220 has external cabling and has a field adjustable pattern.
- The 87XF-70-220 has an internal cabling and fixed dipole-mast spacing.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



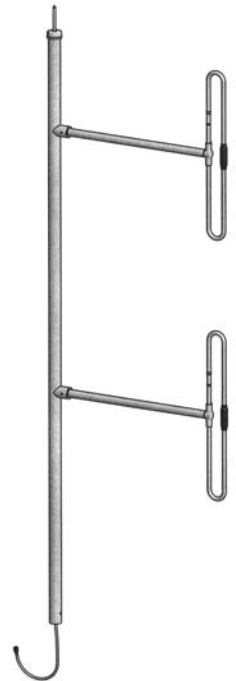
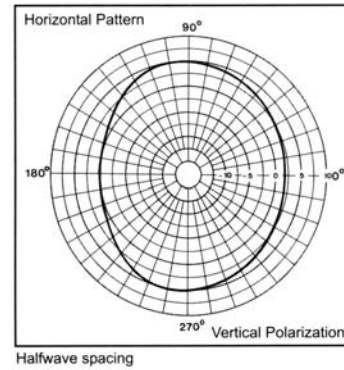
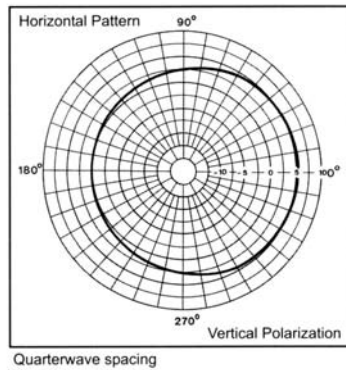
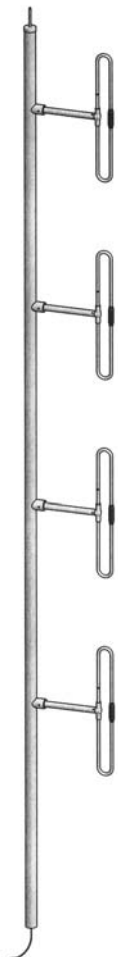
872F-70-220

Electrical Specifications	871F-70-220	872F-70-220	874F-70-220
Frequency Range, MHz	215-225	215-225	215-225
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	10	10	10
Polarization	Vertical	Vertical	Vertical
Pattern	Offset	Offset	Offset
Power Rating, Watts	200	300	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			
Length, in (mm)	66 (1676)	112 (2845)	200 (5080)
Width (1/2 Wave Spacing), in (mm)	31 (787)	31 (787)	32 (813)
Weight, lbs (kg)	12.5 (5.7)	21 (9.5)	51 (23)
Rated Wind Velocity: No Ice, mph (km/h)	165 (266)	150 (241)	145 (233)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	140 (225)	130 (209)	105 (177)
Lateral Thrust @ 100mph wind lbs (kg)	40 (18)	66 (30)	143 (65)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	58 (8)	150 (21)	610 (84)
Projected Area ft ² (m ²)	1.5 (0.14)	2.6 (0.24)	5.5 (0.51)
Mounting Information	Mast 1.9" (48mm) O.D.	Mast 1.9" (48mm) O.D.	Mast 2.4" (60mm) O.D.

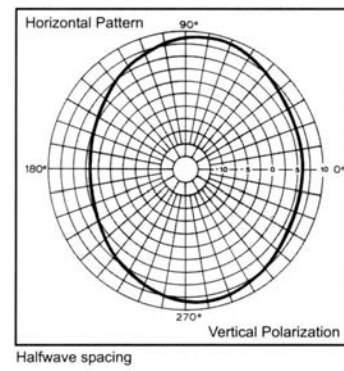
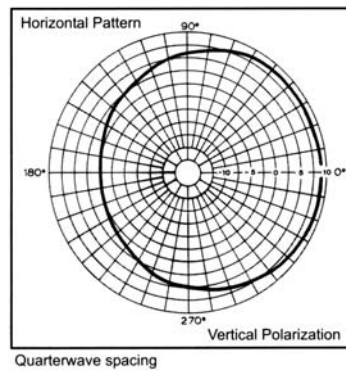
Order Information	Heavy Duty	Side Mount	Top Mount	Black Anodized
871-70-220	871F-70-220HD	871F-70-220SM	871F-70-220TM	871F-70-220HDB
872-70-220	872F-70-220HD	872F-70-220SM	872F-70-220TM	872F-70-220HDB
874-70-220	874F-70-220HD	874F-70-220SM	874F-70-220TM	874F-70-220HDB



871F-70-220



872F-70-220

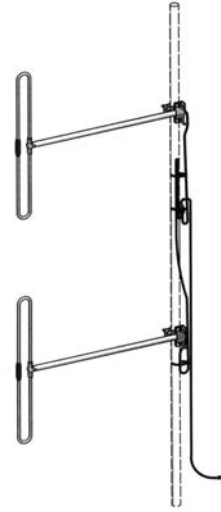


874F-70-220

CP870 LM Series VHF Exposed Dipoles

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, the boom, the clamps to mount the dipoles, but no mast is supplied. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Adjustable only, Side Mount or Top Mount, and many version of Heavy Duty Ruggedness.

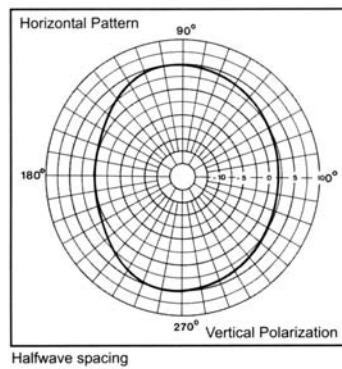
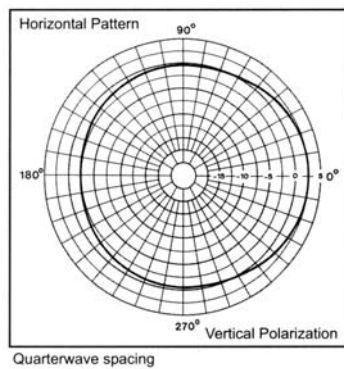
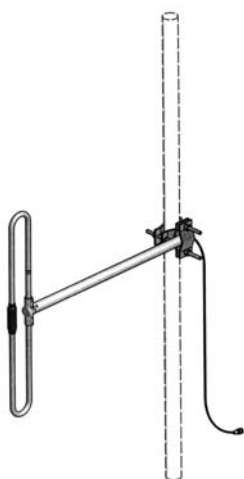
- External cabling and is field adjustable pattern
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation



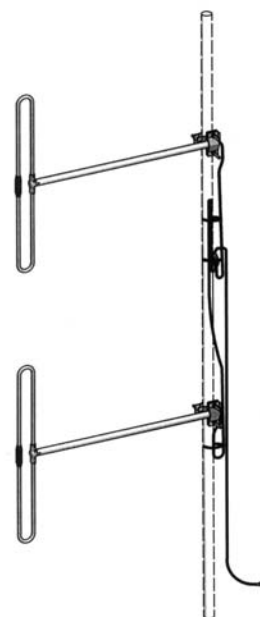
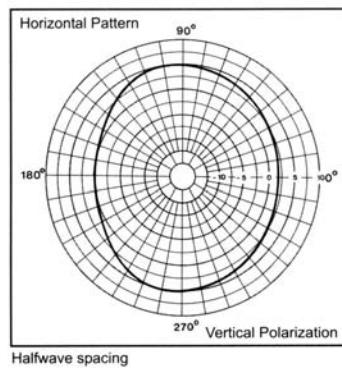
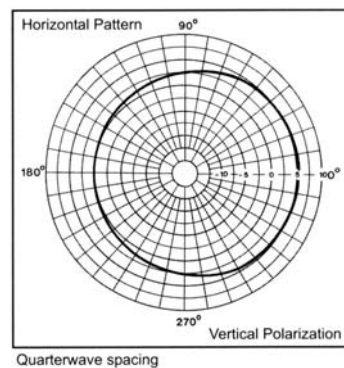
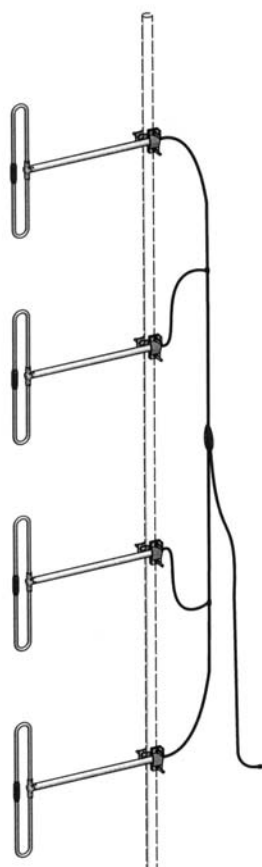
872-70LM

Electrical Specifications	871-70LM	872-70LM	874-70LM
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	Offset	Offset
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			
Length, in (mm)	Mast Not Incl.	Mast Not Incl.	Mast Not Incl.
Width (1/2 Wave Spacing), in (mm)	40 (1016)	40 (1016)	40 (1016)
Weight, lbs (kg)	4.5 (2.0)	19 (8.6)	38 (17.2)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	150 (241)	150 (241)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	135 (217)	135 (217)	135 (217)
Lateral Thrust @ 100mph wind lbs (kg)	20 (9.1)	40 (18.2)	80 (36.5)
Projected Area ft ² (m ²)	0.92 (0.08)	1.84 (0.17)	3.64 (0.34)
Mounting Hardware Supplied	181-85	115R-85	115R-85

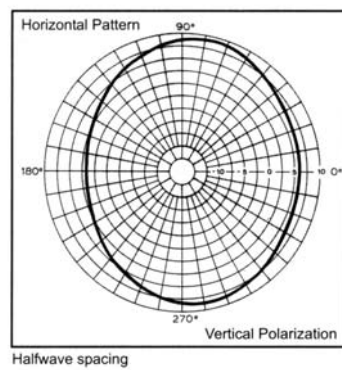
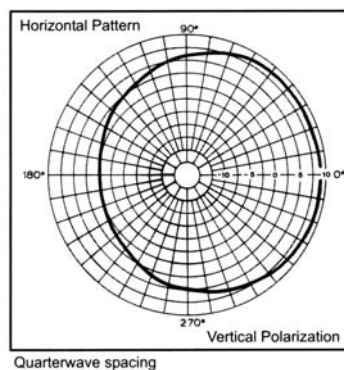
Order Information	Heavy Duty	Black Anodized	w/Mast
871-70LM	871-70LMHDB	871-70LMHDB	871A-70
872-70LM	872-70LMHDB	872-70LMHDB	872A-70
874-70LM	874-70LMHDB	874-70LMHDB	874A-70



871-70LM



872-70LM



874-70LM

CP 840 Series Light Duty VHF Exposed Dipoles

The 840 Series Light Duty VHF Exposed Dipoles are available in 2 and 4 dipole configurations. All of our antennas can be completely customized to your particular applications.

- Low VSWR version, with maximum gain over specified frequency
- The 840 series has an internal cabling and fixed dipole-mast spacing.
- These antennas have an adjustable pattern for Omnidirectional or offset coverage.



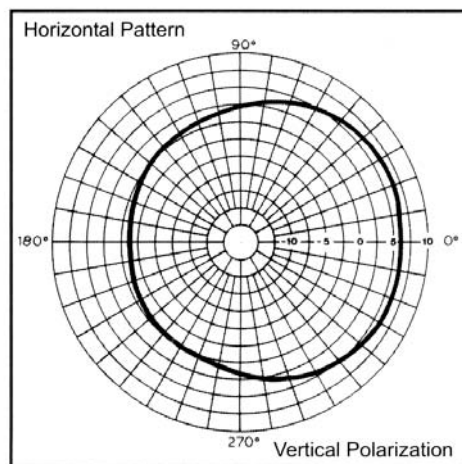
842-70

Electrical Specifications	842-70	844-70
Frequency Range, MHz	148-174	148-174
Nominal Gain, dBd	3.0/6.0	6.0/9.0
Number of Dipoles	2	4
Bandwidth: 2:1 VSWR, MHz	14	14
Polarization	Vertical	Vertical
Pattern	Omni or Bi-Dir.	Omni or Bi-Dir.
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		
Length, in (mm)	138 (3500)	270 (6858)
Width, in (mm)	9 (229)	9 (229)
Weight, lbs (kg)	22 (10)	40 (18)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	110 (177)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	115 (185)	80 (129)
Lateral Thrust @ 100mph wind lbs (kg)	70 (31.8)	139 (63)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	167 (23.1)	514 (71)
Projected Area ft ² (m ²)	2.6 (0.24)	5.2 (0.48)
Mounting Information	107-85 clamp set	107-85 clamp set

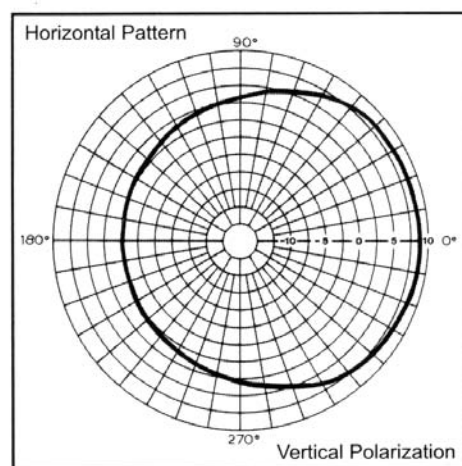
Order Information	148-162 MHz	160-174 MHz
842-70	842-70*1	842-70*2
844-70	844-70*1	844-70*2



842-70



Offset pattern



Offset pattern



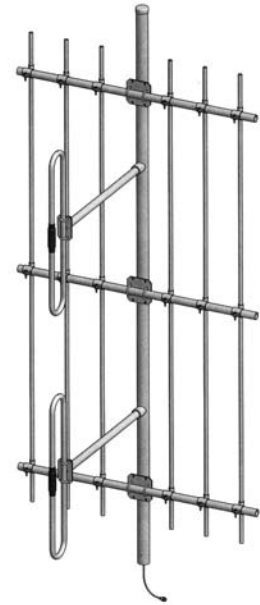
844-70

CP870 Series VHF Exposed Dipoles w/Reflectors

The 870 Series VHF Exposed Dipoles w/Reflectors are available in 1, 2, 4, dipole configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Fully Welded, Side Mount or Top Mount, and many version of Heavy Duty Ruggedness.

The Reflectors not only provide a higher degree of directivity, but can also prevent RF backslash. This product is great for State borders 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 offered in a 3/8 wave version.
- The reflectors provide more directivity and greater front-to-back ratios.
- These Exposed Dipoles all have internal cabling and fixed dipole-mast spacing.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.

**F-3713**

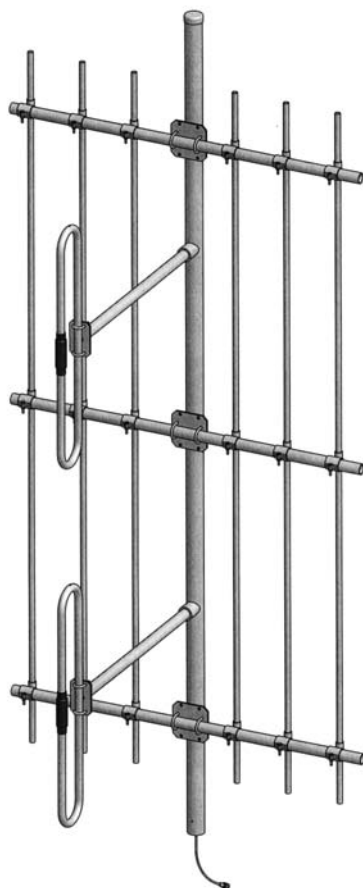
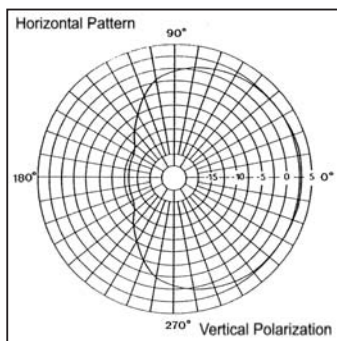
Electrical Specifications	F-3729	F-3713	F-3766
Frequency Range, MHz	138-174	138-174	138-174
Nominal Gain, dBd	2.5-3.0	7.0	9.0-10.0
Number of Dipoles	1	2	4
Number of Reflectors	6	6	6
Bandwidth: 1.5:1 VSWR, MHz	36	36	36
Polarization	Vertical	Vertical	Vertical
Pattern	Directional	Directional	Directional
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			
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 2.4" (61mm) O.D.	Mast 2.4" (61mm) O.D.	Mast 2.9" (73mm) O.D.

Order Information	Heavy Duty	Side Mount	Top Mount	Black Anodized
F-3729	F-3729HD	F-3729SM	F-3729TM	F-3729B
F-3713	F-3713HD	F-3713SM	F-3713TM	F-3713B
F-3766	F-3766HD	F-3766SM	F-3766TM	F-3766B

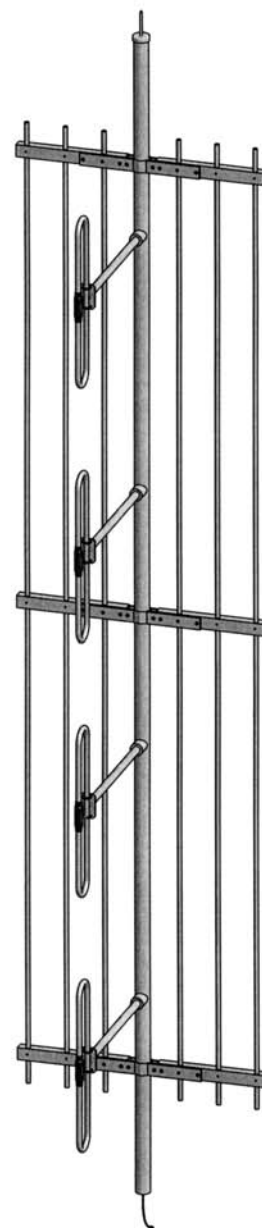
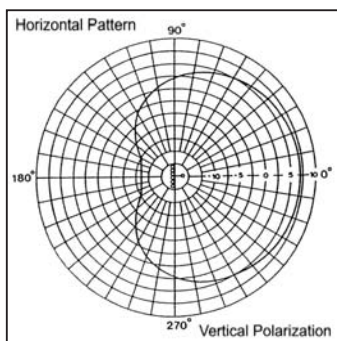
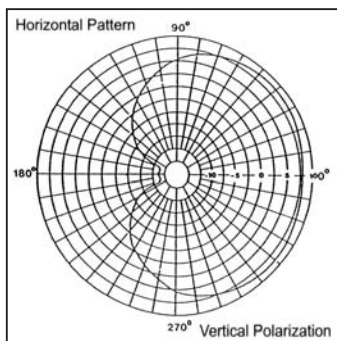
Please call for other available models.



F-3729



F-3713



F-3766

DUAL EXPOSED DIPOLE ARRAY

CP Dual Exposed Dipole Array

The Dual Exposed Dipole Arrays are available in many different configurations. VHF, UHF, and/or 700/800/900MHz antennas can be combined onto one mast. These antennas can be mixed and matched with our 840, 870, 880, 770, 790 series antennas. All of our antennas can be completely customized to your particular applications. Our antennas can be Side Mount or Top Mount.

- Low VSWR version, with maximum gain over specified frequency
- Great for applications where costs are calculated per antenna.
- Heavy Duty versions are available.
- Some versions of antennas have an adjustable pattern for 3dBd Omnidirectional or 6dBd offset coverage.



776-70*40

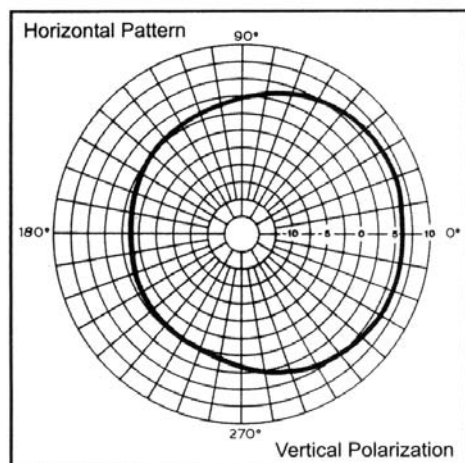


775-70TM

Electrical Specifications	776-70	845-70	876-70
Frequency Range, MHz	406-512	148-174	138-174
Nominal Gain, dBd	5.0-5.5	3.0/6.0	5.0-5.5
Number of Dipoles	2 sets of 2	2 sets of 2	2 sets of 2
Bandwidth: VSWR (MHz)	1.5:1 (106)	2:1 (14)	1.5:1 (36)
Polarization	Vertical	Vertical	Vertical
Pattern	Offset	Omni or Offset	Offset
Power Rating, Watts	300	500	300
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			
Length, in (mm)	126 (3200)	270 (6858)	246 (6248)
Width (1/2 Wave Spacing), in (mm)	16 (406)	9 (229)	40 (1016)
Weight, lbs (kg)	19 (8.6)	42 (19)	67 (30)
Rated Wind Velocity: No Ice, mph (km/h)	150 (241)	110 (177)	145 (233)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	150 (241)	80 (129)	95 (153)
Lateral Thrust @ 100mph wind lbs (kg)	44 (20)	139 (63)	160 (72.6)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	193 (26.7)	514 (71)	1364 (188.7)
Projected Area ft ² (m ²)	1.38 (0.128)	5.2 (0.48)	7 (0.65)
Mounting Information	Mast 1.9" (48) O.D.	107-85 clamp	Mast 2.9" (61) O.D.

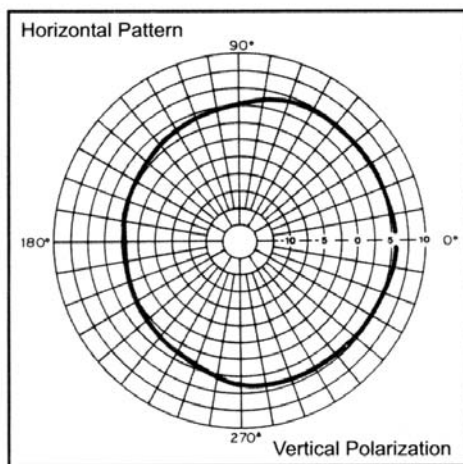
Order Information	Frequency	2*772-70	2*842-70	2*872-70	Side Mount	Top Mount	Black Anodized
776-70	406-512MHz	776-70	n/a	n/a	n/a	n/a	776-70HDB
845-70	148-162MHz	n/a	845-70*1	n/a	n/a	n/a	n/a
845-70	160-174MHz	n/a	845-70*2	n/a	n/a	n/a	n/a
876-70	138-174MHz	n/a	n/a	876F-70	876F-70SM	876F-70TM	876F-70HDB

Please call for other available models.

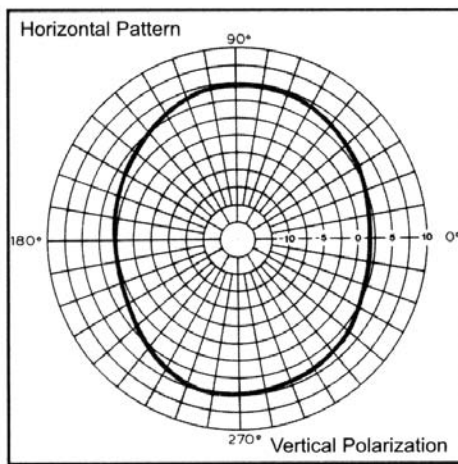


Offset pattern

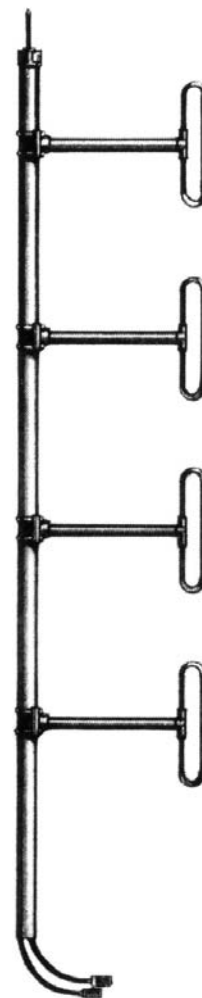
845-70



Quarterwave spacing



Halfwave spacing



876F-70

CP880AV Series VHF Exposed Dipole Array

The 880AV Series VHF Exposed Dipole Array are available in 2 and 4 dipole set configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Top Mount only, and many version of Heavy Duty Ruggedness are all available.

- Each antenna is offered in two versions, Omni or Bi-Directional.
- These antennas have only internal cabling, fixed dipole-mast spacing, and adjustable pattern control.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.

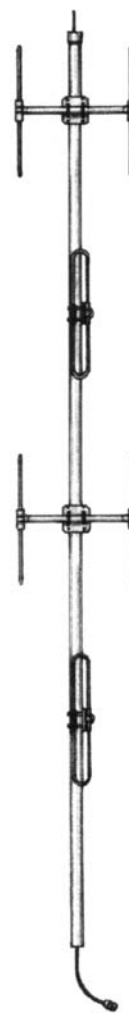
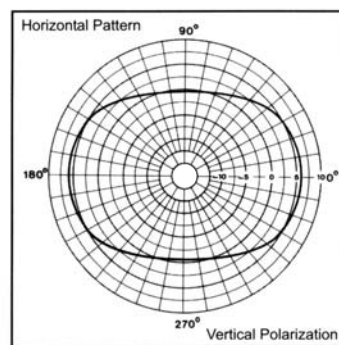
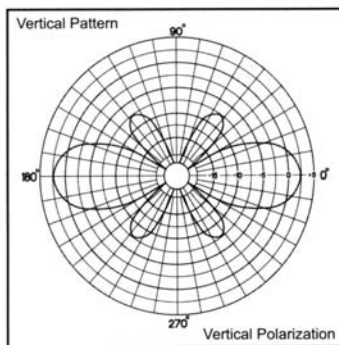
**882-70AV**

Electrical Specifications	882-70AV	884-70AV
Frequency Range, MHz	108-138	108-138
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		
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 @ 100mph wind lbs (kg)	154 (70)	307 (139)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)"	524 (72.5)	2039 (282)
Projected Area ft ² (m ²)	5.6 (0.52)	11 (1.04)
Mounting Information	Mast 2.9 (73) O.D.	Mast 3.5 (89) O.D.

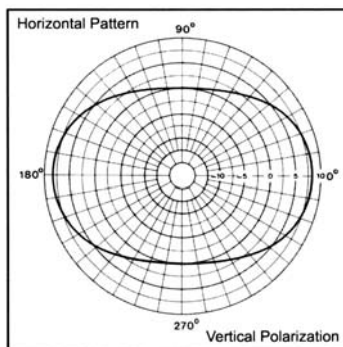
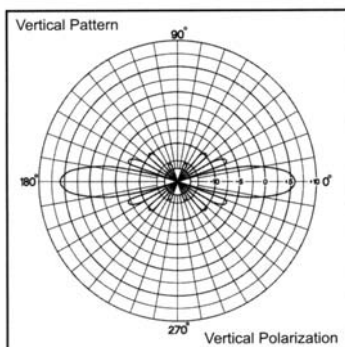
Order Information	Heavy Duty	Black Anodized
882-70AV	882-70AVHD	882-70AVHDB
884-70AV	884-70AVHD	884-70AVHDB



882-70AV



884-70AV



CP880 Series VHF Exposed Dipole Array

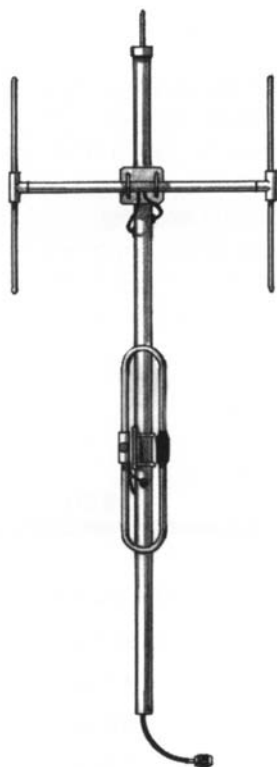
The 880 Series VHF Exposed Dipole Array are available in 2 and 4 dipole set configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Top Mount only, and many version of Heavy Duty Ruggedness are all available.

- Each antenna is offered in two versions, Omni or Bi-Directional.
- These antennas have only internal cabling, fixed dipole-mast spacing, and adjustable pattern control.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.

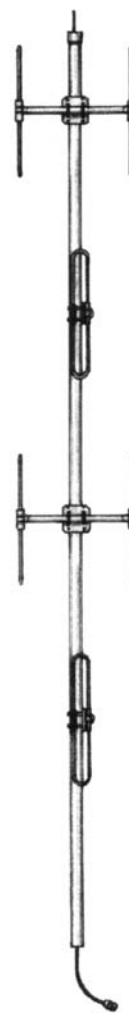
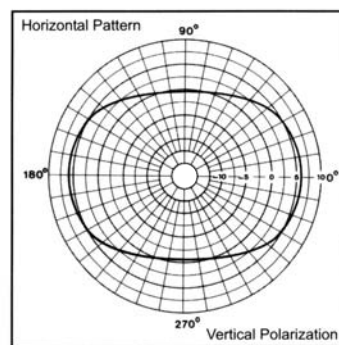
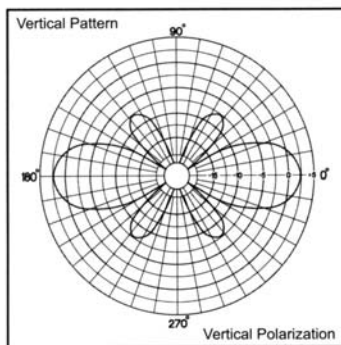
**882-70**

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		
Length, in (mm)	138 (3500)	246 (6248)
Width, in (mm)	30 (762)	31 (787)
Weight, lbs (kg)	36 (16.3)	78 (35)
Rated Wind Velocity: No Ice, mph (km/h)	120 (162)	110 (177)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	95 (137)	80 (129)
Lateral Thrust @ 100mph wind lb (kg)	113 (51)	236(107)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	351 (49)	1264 (175)
Projected Area ft ² (m ²)	4.1 (0.38)	8.7 (0.81)
Mounting Information	Mast 2.4" (61 mm) O.D.	Mast 2.9" (73 mm) O.D.

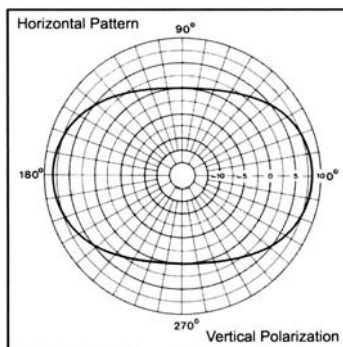
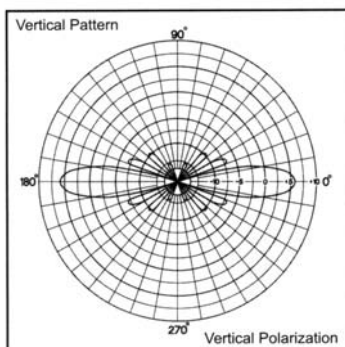
Order Information	Heavy Duty	Black Anodized
882-70	882-70HD	882-70HDB
884-70	884-70HD	884-70HDB



882-70



884-70



CP770 Series UHF Exposed Dipoles

The 770 Series UHF Exposed Dipoles are available in 1, 2, 4, 8, and dual dipole configurations. All of 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 many versions of Heavy Duty Ruggedness.

- Each antenna is offered in a 1/4, 3/8, or 1/2 wave versions.
- The 77X-70 has an internal cabling and fixed dipole-mast spacing.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



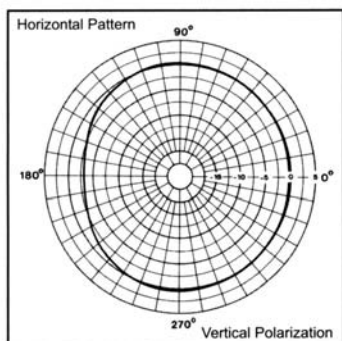
772-70

Electrical Specifications	771-70	772-70	774-70	778-70
Frequency Range, MHz	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	Offset	Offset	Offset
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				
Length, in (mm)	66 (1676)	86 (2184)	126 (3200)	210 (5334)
Width (1/2 Wave Spacing), 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 @ 100mph wind, lbs (kg)	27 (12.3)	39 (17.8)	64 (29)	134 (61)
Bending Moment top clamp: 100mph, lb*ft (kg*m)	33.5 (4.6)	72 (10)	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.	1.9" (48mm)	1.9" (48mm)	1.9" (48mm)	2.4" (61mm)

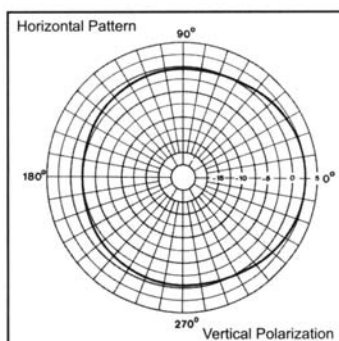
Order Information	Side Mount	Top Mount	Heavy Duty	Welded	Black Anodized
771-70	771-70SM	771-70TM	771-70HD	771-70HDW	771-70HDB
772-70	772-70SM	772-70TM	772-70HD	772-70HDW	772-70HDB
774-70	774-70SM	774-70TM	774-70HD	774-70HDW	774-70HDB
778-70	778-70SM	778-70TM	778-70HD	778-70HDW	778-70HDB



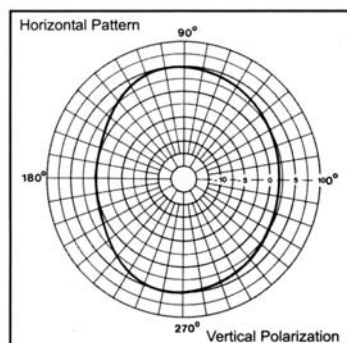
771-70



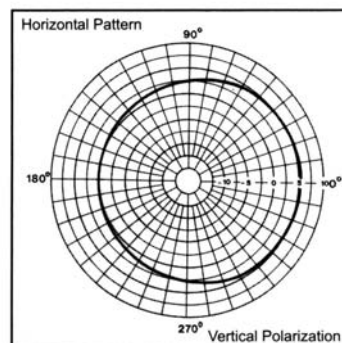
Halfwave spacing



Quarterwave spacing



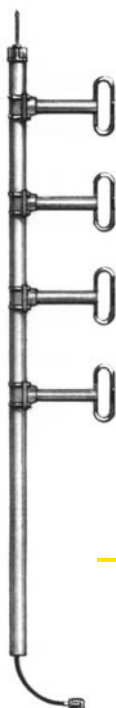
Halfwave spacing



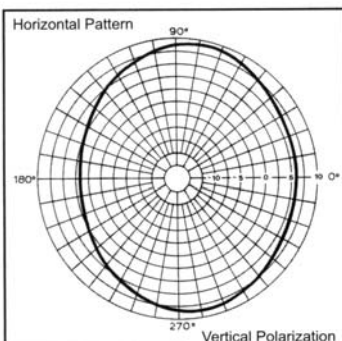
Quarterwave spacing



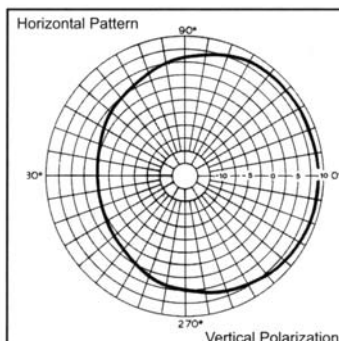
772-70



774-70



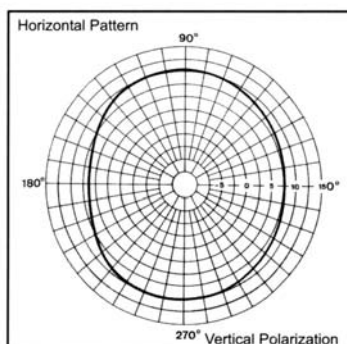
Halfwave spacing



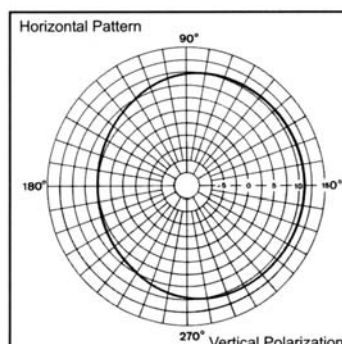
Quarterwave spacing



778-70



Halfwave spacing



Quarterwave spacing

CP780 Series UHF Exposed Dipole Array

The 780 Series UHF Exposed Dipole Arrays are available in 2 and 4 dipole set configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Top Mount only, and many versions of Heavy Duty Ruggedness are all available.

- Each antenna is offered in two versions, Omni or Bi-Directional.
- These antennas have only internal cabling, fixed dipole-mast spacing, and adjustable pattern control.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



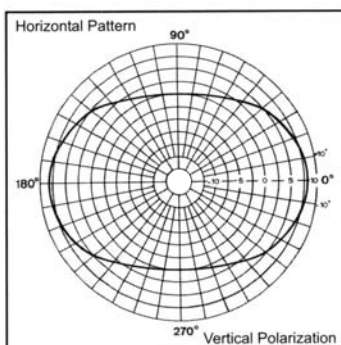
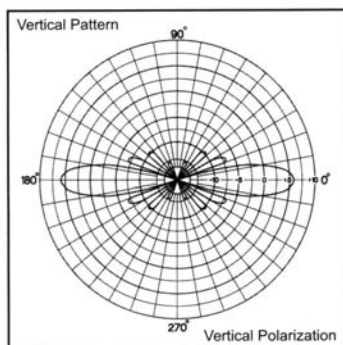
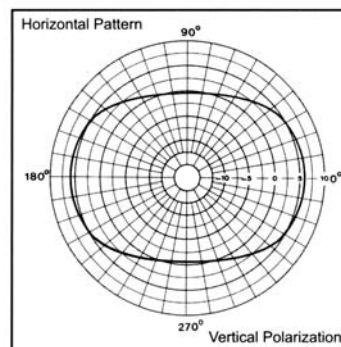
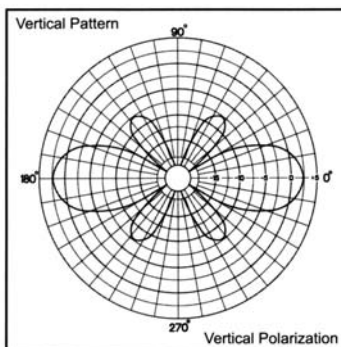
782-70

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 Male	Type N Male
Mechanical Specifications		
Length, in (mm)	90 (2286)	126 (3200)
Width (1/2 Wave Spacing), in (mm)	12.75 (324)	12.75 (324)
Weight, lbs (kg)	25 (11.3)	38 (17)
Rated Wind Velocity: No Ice, mph (km/h)	145 (233)	130 (209)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	100 (161)	90 (145)
Lateral Thrust @ 100mph wind lbs (kg)	54 (24.5)	101 (46)
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	137 (19)	426 (59)
Projected Area ft ² (m ²)	2.0 (0.19)	3.5 (0.33)
Mounting Information	Mast 1.9" (48mm) O.D.	Mast 2.4" (60mm) O.D.

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



782-70



784-70

DUAL ANTENNA ARRAY

CP Dual Antenna Array

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

- Low VSWR version, with maximum gain over specified frequency
- Great for applications where costs are calculated per antenna.
- Heavy Duty versions are available
- Multiple combinations are available and customizable, please contact a Comprod Technical support technician for more details.

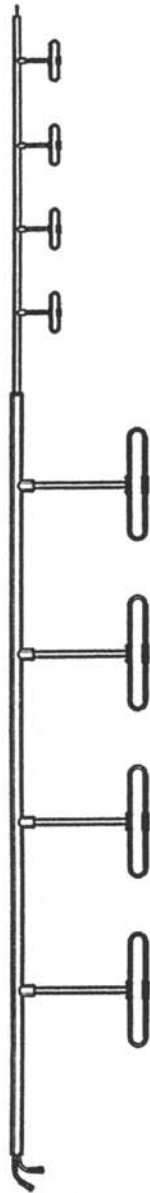


F-3661

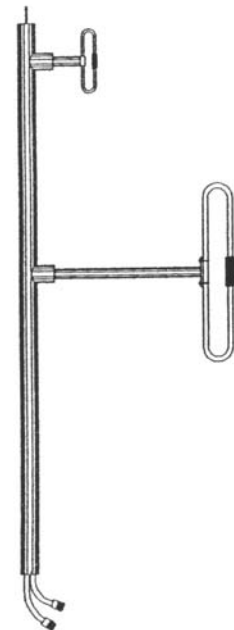
Electrical Specifications	F-3676		F-3661		F-3647	
Frequency Range, MHz	138-174	406-470	138-174	406-470	138-174	406-470
Nominal Gain, dBd	8.0-8.5	8.0-8.5	5.0-5.5	5.0-5.5	2.0-2.5	2.0-2.5
Number of Dipoles	4	4	2	2	1	1
Bandwidth: 1.5:1 VSWR, MHz	36	64	36	106	36	106
Polarization	Vertical		Vertical		Vertical	
Pattern	Offset		Offset		Offset	
Power Rating, Watts	300		300		300	
Nominal Impedance, Ohms	50		50		50	
Lightning Protection	DC Ground		DC Ground		DC Ground	
Standard Termination Dual Feed	Type N Male		Type N Male		Type N Male	
Mechanical Specifications						
Length, in (mm)	354 (8992)		186 (4724)		126 (3200)	
Width (1/2 Wave Spacing), in (mm)	41 (1041)		40 (1016)		40 (1016)	
Weight, lbs (kg)	117 (53)		59 (26.8)		26 (11.9)	
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 (137)		110 (177)		140 (225)	
Lateral Thrust @ 100mph wind lbs (kg)	315 (143)		154 (70)		67 (30.5)	
Bending Moment @ top clamp: 100mph, lb*ft (kg*m)	2469 (341)		720 (100)		110 (15)	
Projected Area ft² (m²)	12 (1.12)		5.7 (0.53)		2.5 (0.23)	
Mounting Information	Mast 3.5" (89mm) O.D.		Mast 2.9" (73mm) O.D.		Mast 1.9" (48 mm) O.D.	

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

Please call for other available models.



F-3676



F-3647

CP790 Series Enclosed Dipoles

The 790 Series Enclosed Dipoles are available in 2, 4, or 9 dipole configurations. All of our antennas can be completely customized to your particular applications.

- Each antenna is offered in an offset or bi-directional pattern.
- Broadband, ideal for trunking or cellular applications.
- Weatherproof radome to ensure continuous service in severe environments.



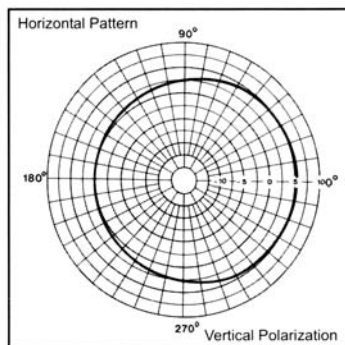
794-70

Electrical Specifications	792-70	794-70	799-70
Frequency Range, MHz	746-960	746-960	746-960
Nominal Gain, dBd	5.0	8.0	10.0
Number of Dipoles	2	4	9
Bandwidth: 1.5:1 VSWR, MHz	90	90	90
Polarization	Vertical	Vertical	Vertical
Pattern	Offset or Bi-Dir.	Offset or Bi-Dir.	Offset or Bi-Dir.
Power Rating, Watts	150	300	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			
Length, in (mm)	22 (559)	44.5 (1130)	94 (2388)
Width, in (mm)	2.5 (64)	2.5 (64)	2.5 (64)
Weight, lbs (kg)	8.8 (4)	14 (6.5)	24 (11)
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 @ 100mph wind lbs (kg)	36.4 (16.5)	73 (33)	153 (59)
Projected Area ft ² (m ²)	1.4 (0.13)	2.7 (0.25)	5.7 (0.53)
Mounting Information (Clamps incl.)	1.5-2.88" O.D.	1.5-2.88" O.D.	1.5-2.88" O.D.

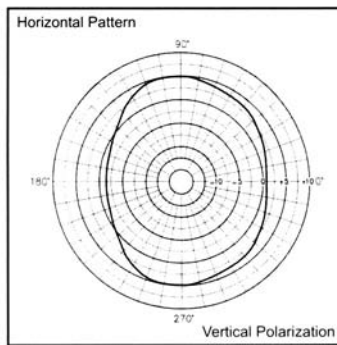
Order Information	746-806MHz	806-896 MHz	896-960MHz	W/Reflector
792-70	792-70*1	792-70*2	792-70*3	792-70R
794-70	794-70*1	794-70*2	794-70*3	794-70R
799-70	799-70*1	799-70*2	799-70*3	799-70R



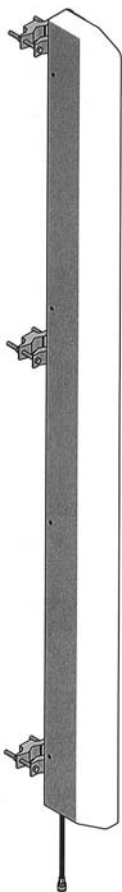
792-70



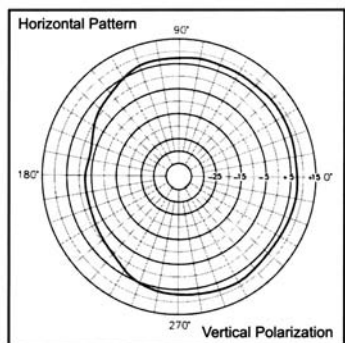
Offset pattern



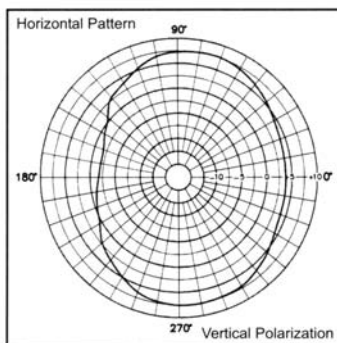
Bidirectional pattern



799-70



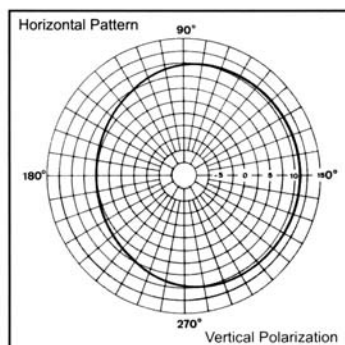
Offset pattern



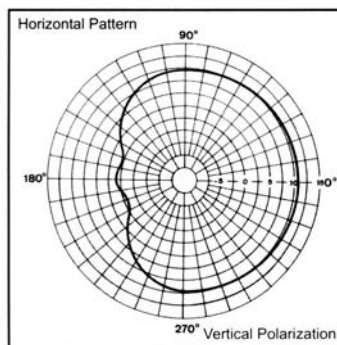
Bidirectional pattern



794-70



Offset pattern

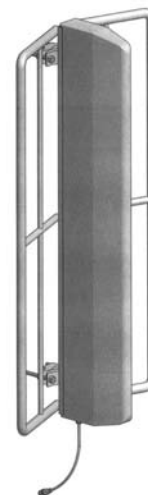


Bidirectional pattern

CP790 Series Enclosed Dipoles w/Reflector

The 790 Series Enclosed Dipoles w/Reflector are available in 2, 4, or 9 dipole configurations. These antennas can be sectorized from 60° to 160°. All of our antennas can be completely customized to your particular applications.

- Broadband, ideal for trunking or cellular applications.
- The Reflector is field adjustable and has 5 positions, 60°, 90°, 105°, 130°, and 160°.
- Weatherproof radome to ensure continuous service in severe environments.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.

**794-70R**

Electrical Specifications	792-70R	794-70R	799-70R
Frequency Range, MHz	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	9
Bandwidth: 1.5:1 VSWR, MHz	90	90	90
Polarization	Vertical	Vertical	Vertical
Pattern	Directional	Directional	Directional
Power Rating, Watts	150	300	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			
Length, in (mm)	22 (559)	44.5 (1130)	94.5 (2395)
Width, 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 @ 100mph wind	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 (Clamps incl.)	1.5-2.88" O.D.	1.5-2.88" O.D.	1.5-2.88" O.D.

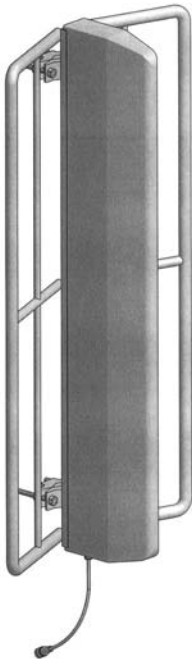
Order Information	746-806MHz	806-869MHz	824-896MHz	896-960MHz	No Reflector
792-70R	792-70R*1	792-70R*2	792-70R*3	792-70R*4	792-70
794-70R	794-70R*1	794-70R*2	794-70R*3	794-70R*4	794-70
799-70R	799-70R*1	799-70R*2	799-70R*3	799-70R*4	799-70

Call for 60°, 90°, 105°,
130°, 160° patterns



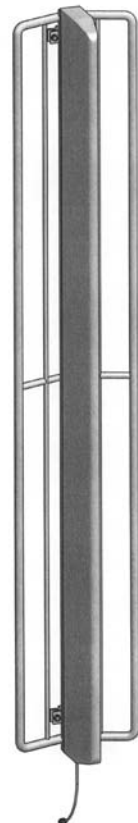
792-70R

Call for 60°, 90°, 105°,
130°, 160° patterns



794-70R

Call for 60°, 90°, 105°,
130°, 160° patterns

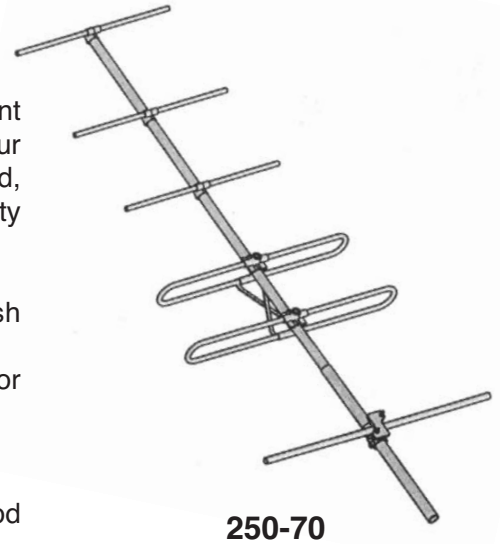


799-70R

CP290 Series VHF Yagi Antennas

The 290 Series VHF Yagi Antenna are available in 2, 3, and 6 element configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Welded, Vertically or Horizontally Polarized, and many versions of Heavy Duty Ruggedness are available.

- 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
- Option to have the entire antenna welded for added durability
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



250-70

Electrical Specifications	291-70	295-70	290-70	250-70
Frequency Range, MHz	138-174	138-174	138-174	138-174
Nominal Gain, dBd	3.5	6.5	9.5	7
Number of Elements	2	3	6	7
Bandwidth: 1.5:1 VSWR, MHz (Ctr. Freq.%)	3.75%	4%	4%	36 @ 2:1
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Ver. Pol)	140°	90°	62°	80°
Vertical Beamwidth (Ver. Pol)	70°	61°	50°	60°
Front to Back, dB	15	12	17	25
Pattern	Direct.	Direct.	Direct.	Direct.
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

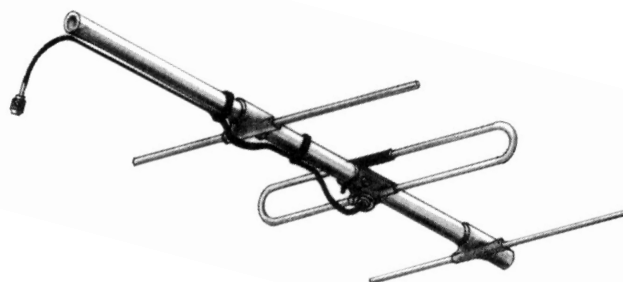
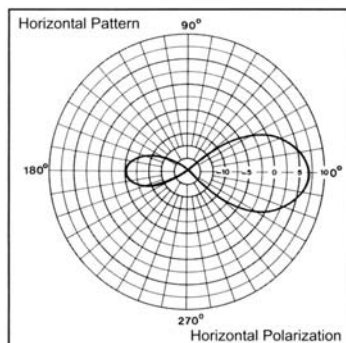
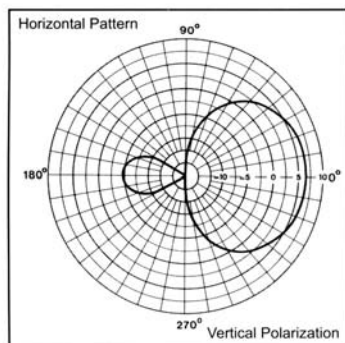
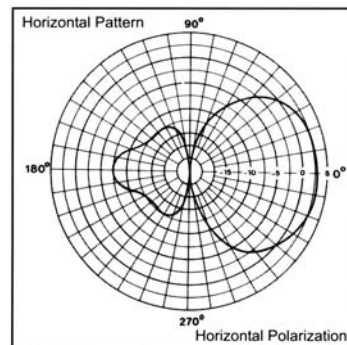
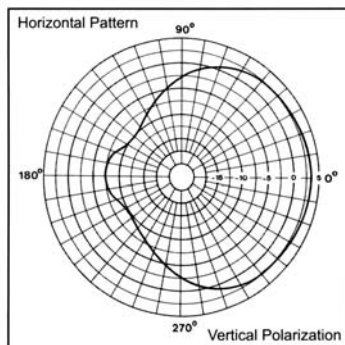
Mechanical Specifications

Length, in (mm)	50 (1270)	60 (1524)	108 (2743)	104 (2642)
Width (1/2 Wave Spacing), 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 @ 100mph 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 Information: Mast O.D.	181-85 Clamp	181-85 Clamp	115-85 Clamp	115-85 Clamp

Order Information	End Mount	End Boom	Center Mount	Welded	Heavy Duty	Black Anodized	(2) Stacked
291-70	291-70	n/a	n/a	291-70W	291-70HD	291-70B	Call
295-70	295-70	n/a	295-70CB	295-70W	295-70HD	295-70B	Call
290-70	290-70	290-70EB	290-70CB	290-70W	290-70HD	290-70B	298-70
250-70	250-70	250-70	n/a	250-70W	250-70HD	250-70B	Call



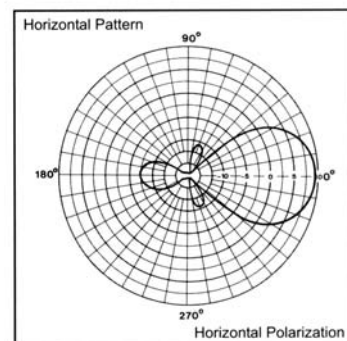
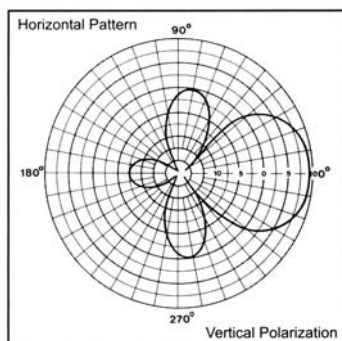
291-70



295-70



290-70



CP290 Series 220MHz Yagi Antennas

The 290 Series 220MHz Yagi Antennas are available in 2, 3, and 6 element configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Welded, Vertically or Horizontally Polarized, and we have many version of Heavy Duty Ruggedness.

- 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
- Option to have the entire antenna welded for added durability
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



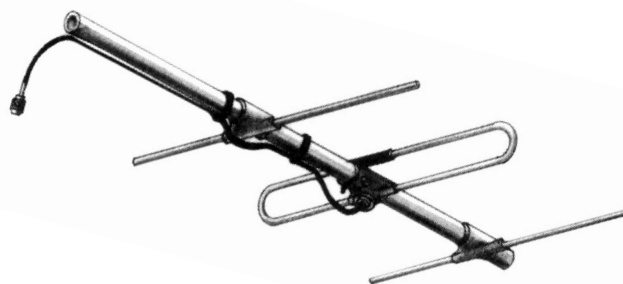
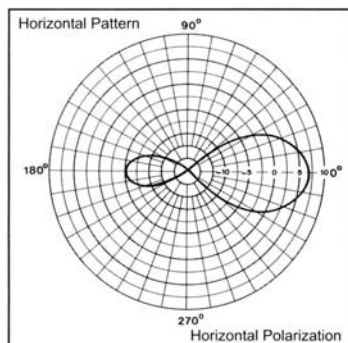
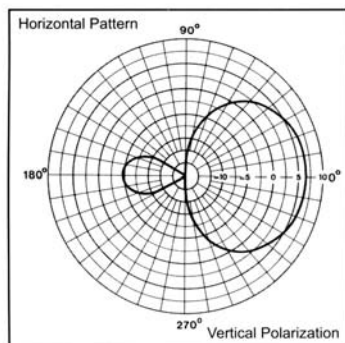
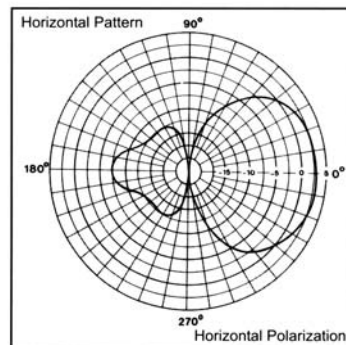
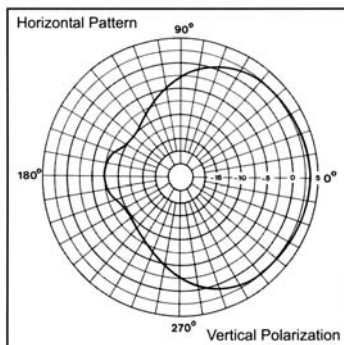
290-70-220

Electrical Specifications	291-70-220	295-70-220	290-70-220
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	10	10	10
Polarization	Vert. or Horz.	Vert. or Horz.	Vert. or Horz.
Horizontal Beamwidth (Ver. Pol)	140°	90°	62°
Vertical Beamwidth (Ver. Pol)	70°	36°	50°
Front to Back, dB	15	12	17
Pattern	Direct.	Direct.	Direct.
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			
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 @ 100mph wind, lbs (kg)	19.4 (8.8)	27 (12)	47 (21.3)
Torsional Moment @ 100mph, 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 Information: Mast O.D.	181-85 Clamp	181-85 Clamp	115R-85 Clamp

Order Information	End Boom	Welded	Heavy Duty	Black Anodized	(2) Stacked
291-70-220	291-70EB-220	291-70W-220	291-70HD-220	291-70HDB-220	n/a
295-70-220	295-70EB-220	295-70W-220	295-70HD-220	295-70HDB-220	n/a
290-70-220	290-70EB-220	290-70W-220	290-70HD-220	290-70HDB-220	298-70-220



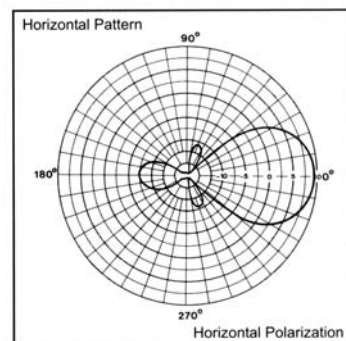
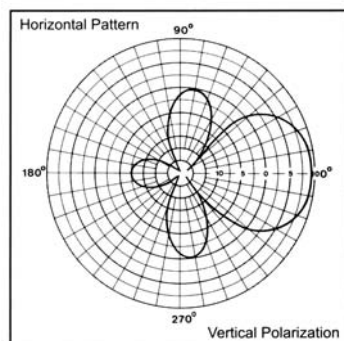
291-70-220



295-70-220



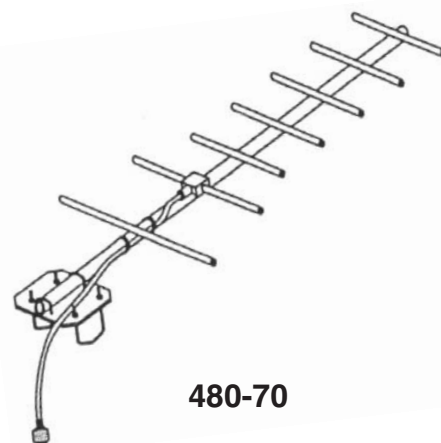
290-70-220



CP UHF Yagi Antennas Series

The UHF Yagi Antenna Series are available in 2, 3, 7 element and our 70 MHz wideband configuration. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Fully Welded, Vertically or Horizontally Polarized, and many version of Heavy Duty Ruggedness are available.

- Each antenna has a rugged fully welded design to withstand harsh environmental conditions.
- The mounting hardware supplied will allow either vertical or horizontal polarization.
- DC ground for lightning protection.
- All UHF yagi antennas are fully welded.
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation.



480-70

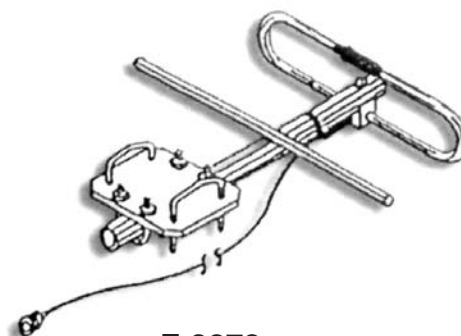
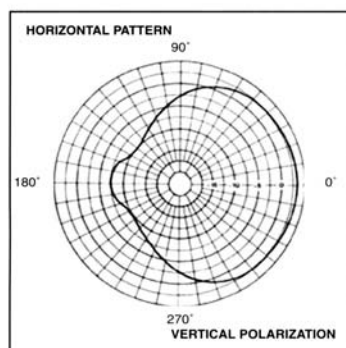
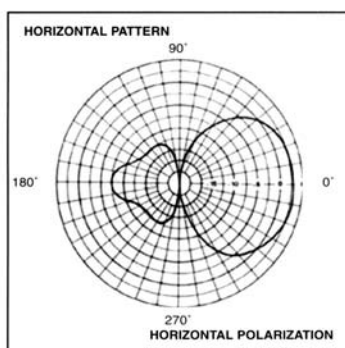
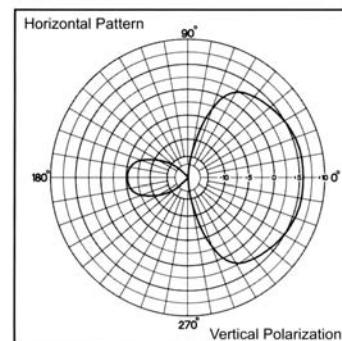
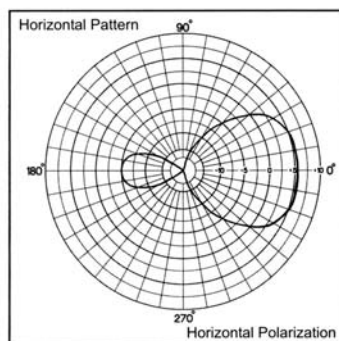
Electrical Specifications	F-3872	433-70	430-70	480-70
Frequency Range, MHz	406-512	406-512	406-512	406-470
Nominal Gain, dBd	3.5	6.5	10.0	10.0
Number of Elements	2	3	7	7
Bandwidth: 1.5:1 VSWR, MHz	24	24	24	64
Polarization	Vert. or Horz.	Vert. or Horz.	Vert. or Horz.	Vert. or Horz.
Horizontal Beamwidth (Ver. Pol)	138°	83°	62°	62°
Vertical Beamwidth (Ver. Pol)	72°	59°	48°	50°
Front to Back, dB	10	12	20	17
Pattern	Direct.	Direct.	Direct.	Direct.
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				
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 @ 100mph 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	127-85 Clamp	127-85 Clamp	127-85 Clamp	127-85 Clamp

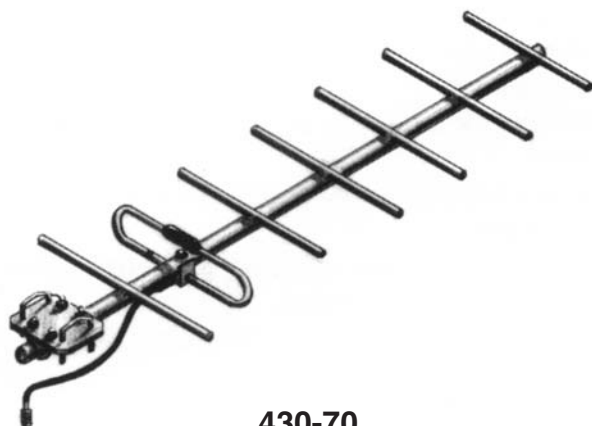
Order Information	406-430	430-450	450-470	406-470	Black Anodized (2)	Stacked (4)	Stacked
F-3872	F-3872*1	F-3872*2	F-3872*3	n/a	F-3872B	n/a	n/a
433-70	433-70*1	433-70*2	433-70*3	n/a	433-70B	n/a	n/a
430-70	430-70*1	430-70*2	430-70*3	n/a	430-70B	431-70	432-70
480-70	480-70	480-70	480-70	480-70	480-70B	481-70	482-70



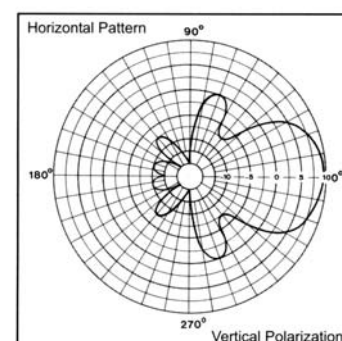
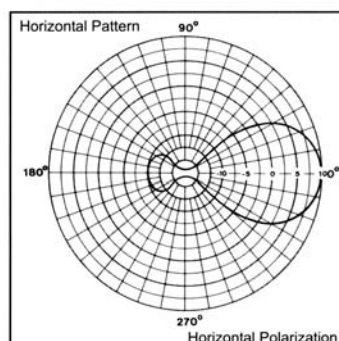
433-70



F-3872



430-70

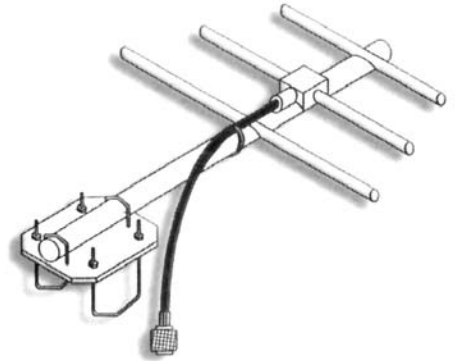


430-70 / 480-70

CP 980 Yagi Antennas Series

The 980 Yagi Antenna Series are available in 2, 3, 7, 11 element configurations. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Vertically or Horizontally Polarized.

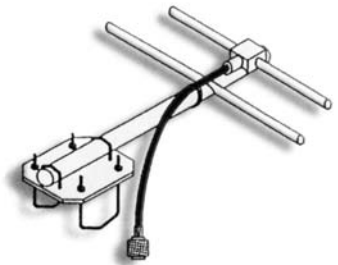
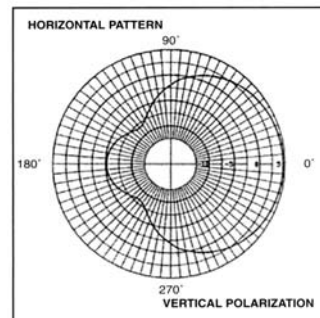
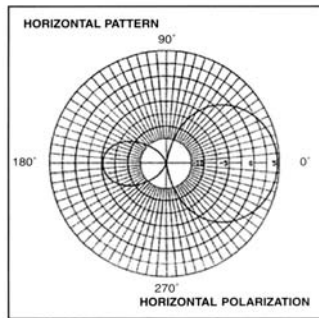
- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- All 980 Series yagi antennas are fully welded.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



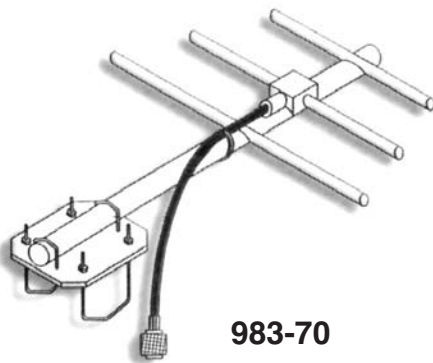
983-70

Electrical Specifications	982-70	983-70	980-70	987-70
Frequency Range, MHz	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	30	85	85	85
Polarization	Vert. or Horz.	Vert. or Horz.	Vert. or Horz.	Vert. or Horz.
Horizontal Beamwidth (Ver. Pol)	128°	99°	56°	41°
Vertical Beamwidth (Ver. Pol)	66°	60°	42°	38°
Front to Back, dB	9	16	20	20
Pattern	Direct.	Direct.	Direct.	Direct.
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				
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" (133 mm) 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 (0.009)	0.13 (0.012)	0.26 (0.024)	0.41 (0.038)
Mounting Hardware	1.0-2.38" O.D.	1.0-2.38" O.D.	1.0-2.38" O.D.	1.0-2.38" O.D.

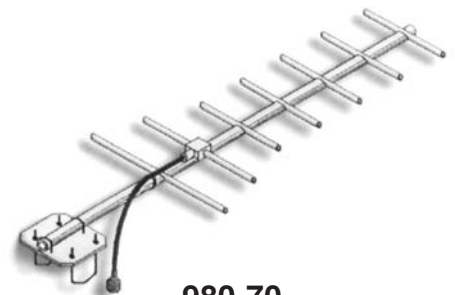
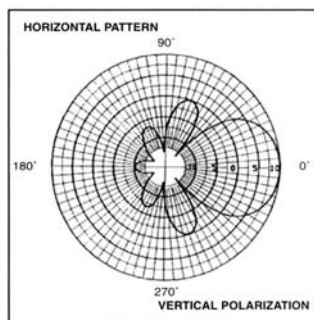
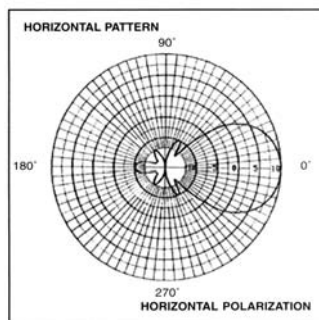
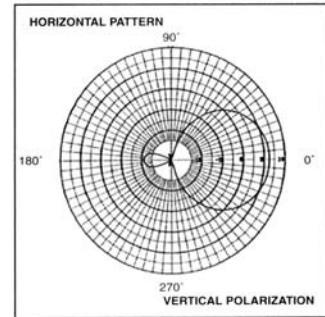
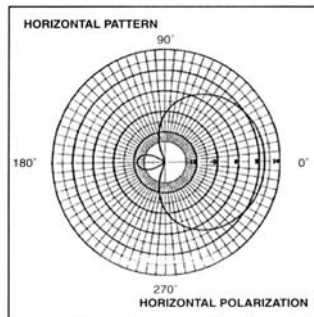
Order Information	746-806MHz	806-869MHz	824-896MHz	896-960MHz	Black Anodized	(2) Stacked
982-70	**** Call With Frequencies ****					n/a
983-70	983-70*1	983-70*2	983-70*3	983-70*4	983-70B	n/a
980-70	980-70*1	980-70*2	980-70*3	980-70*4	980-70B	(2)980-70
987-70	987-70*1	987-70*2	987-70*3	987-70*4	987-70B	(2)987-70



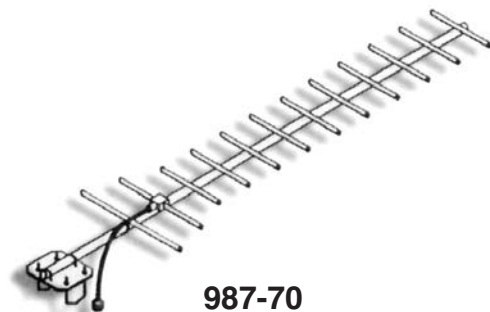
982-70



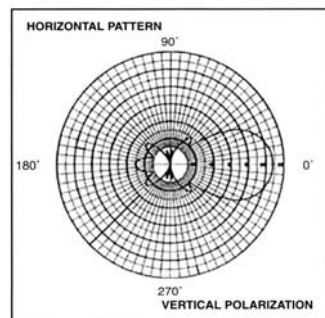
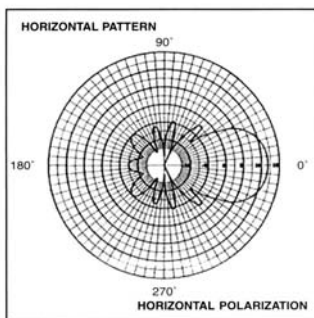
983-70



980-70



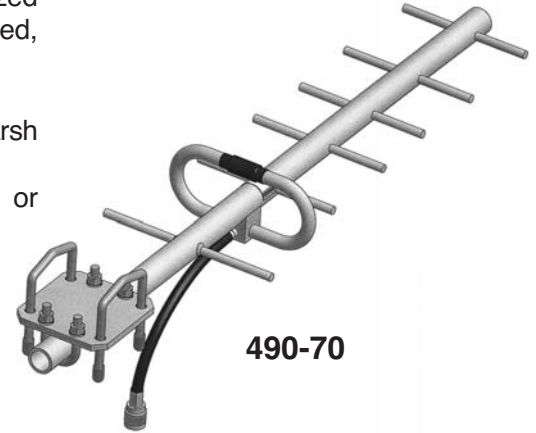
987-70



CP 490 Heavy Duty Yagi Antennas Series

The 490 Heavy Duty Yagi Series is an extremely rugged 7 element configuration antenna. All of our antennas can be completely customized to your particular applications. Our antennas can be Black Anodized, Vertically or Horizontally Polarized.

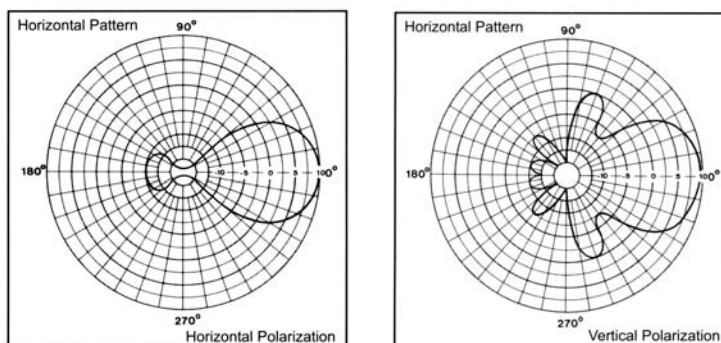
- Each antenna has an extremely rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- The 490 Series yagi antennas are fully welded.
- DC ground for lightning protection.



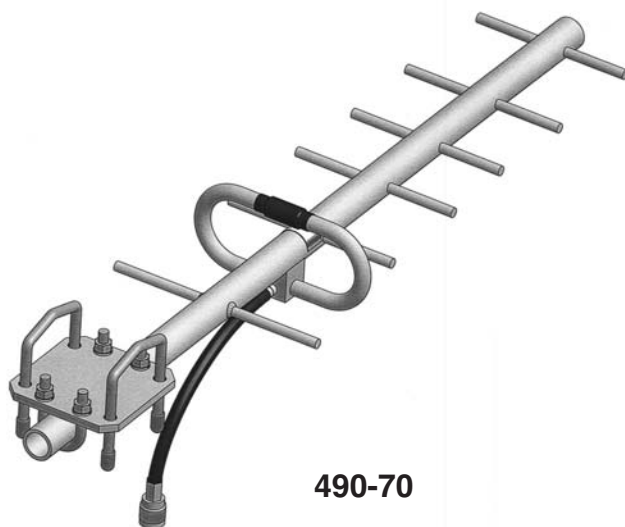
490-70

Electrical Specifications	490-70
Frequency Range, MHz	806-960
Nominal Gain, dBd	10.0
Number of Elements	7
Bandwidth: 1.5:1 VSWR, MHz	85
Polarization	Vert. or Horz.
Horizontal Beamwidth (Ver. Pol)	56°
Vertical Beamwidth (Ver. Pol)	42°
Front to Back, dB	20
Pattern	Direct.
Power Rating, Watts	200
Nominal Impedance, Ohms	50
Standard Termination	Type N Male
Mechanical Specifications	
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" (133 mm) Ice, mph (km/h)	150 (241)
Lateral Thrust @ 100 mph wind, lbs (kg)	38 (17)
Bending Moment @ top clamp: 100mph, ft*lb (kg*m)	13 (1.8)
Equiv. Flat Plate Area, ft ² lb (m ²)	0.4 (0.04)
Mounting Hardware	1.0-2.38" O.D.

Order Information	806-869MHz	824-896MHz	896-960MHz	Black Anodized	(2) Stacked
490-70	490-70*1	490-70*2	490-70*3	490-70B	491-70



490-70



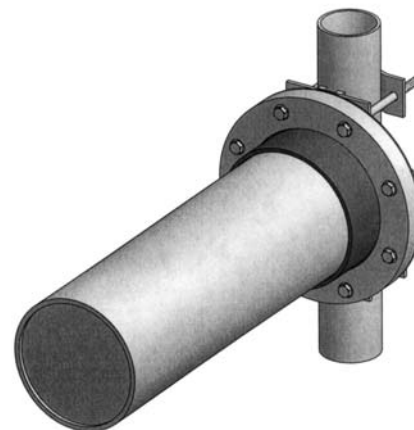
490-70

RADOME YAGI ANTENNA

CP Radome Yagi Antennas Series

The Radome Yagi Antenna Series are available in UHF & 700/800/900MHz configurations. UHF, we have two types of radomes, Fiberglass or PVC. In 700/800/900MHz only the PVC model is available. All of our antennas can be completely customized to your particular applications.

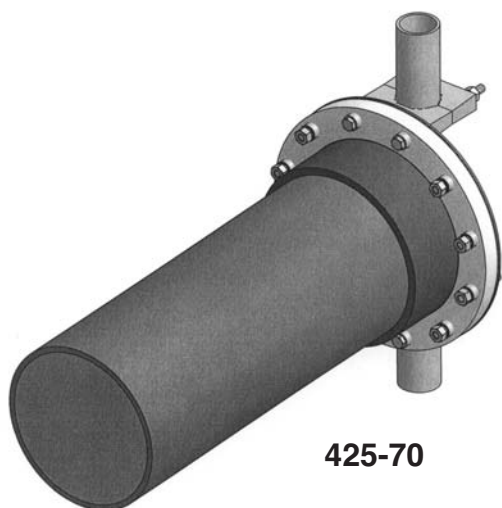
- Each antenna has a rugged design to withstand the most extreme environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.
- The PVC enclosure is ½" thick water main.
- These are our Heavy Duty versions – Part of our Avalanche Series, please contact a Comprod Technical support technician for consultation.



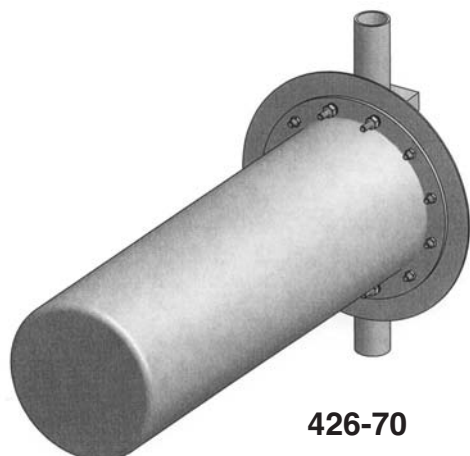
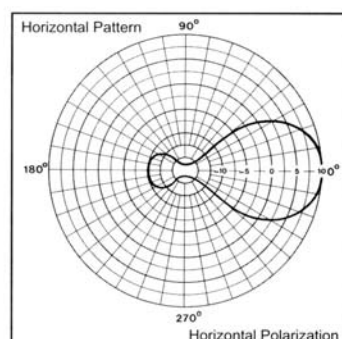
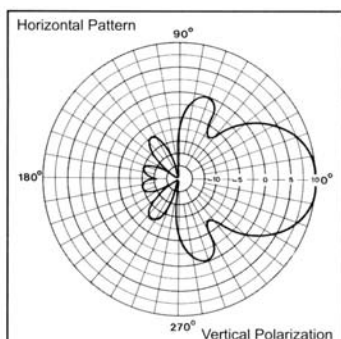
490-70R

Electrical Specifications	425-70	426-70	490-70R
Frequency Range, MHz	406-512	406-512	746-960
Nominal Gain, dBd	10	10	10
Number of Elements	Loop Yagi	Loop Yagi	7
Bandwidth: 1.5:1 VSWR, MHz	20	20	72
Polarization	Vert. or Hor.	Vert. or Hor.	Vert. or Hor.
Horizontal Beamwidth (Ver. Pol)	62°	62°	56°
Vertical Beamwidth (Ver. Pol)	48°	48°	42°
Front to Back, dB	20	20	20
Pattern	Direct.	Direct.	Direct.
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			
Length, in (mm)	31 (787)	30 (762)	29 (737)
Width (1/2 Wave Spacing), 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 @ 100mph 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 Information	2.9" O.D.	2.4" O.D.	2.9" O.D.

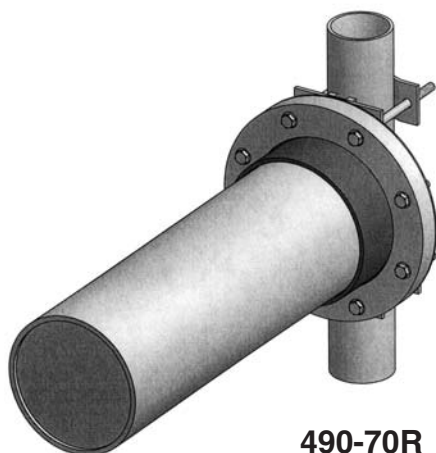
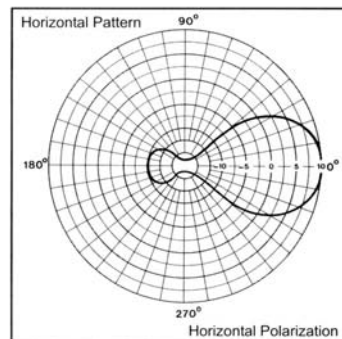
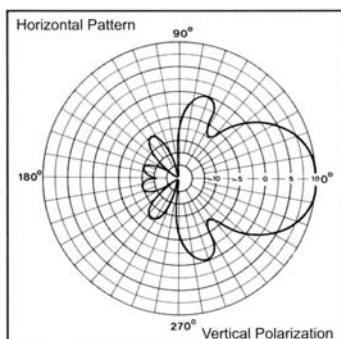
Order Information	(2) Stacked	(4) Stacked	406-430	430-450	450-470
425-70	2*425-70	4*425-70	425-70*1	425-70*2	425-70*3
426-70	2*426-70	4*426-70	426-70*1	426-70*2	426-70*4
490-70R	2*490-70R	4*490-70R	n/a	n/a	n/a



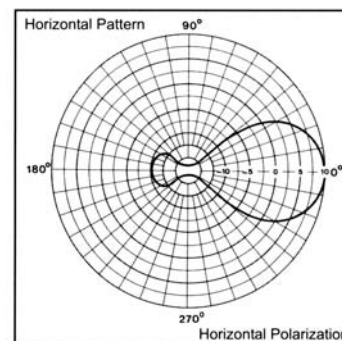
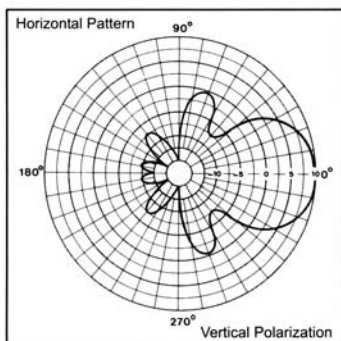
425-70



426-70



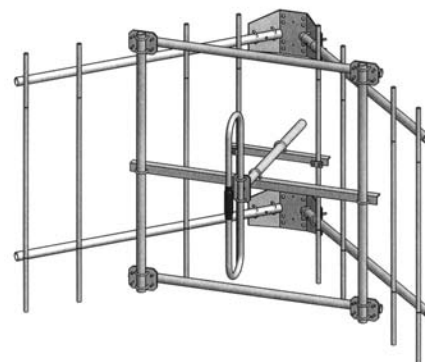
490-70R



CP VHF Corner Reflector Antenna Series

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

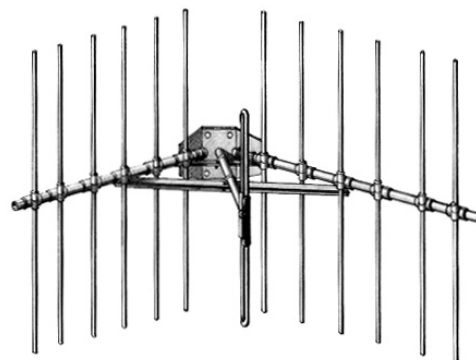
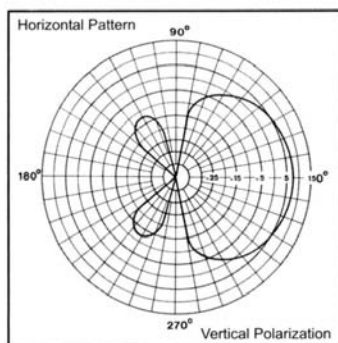
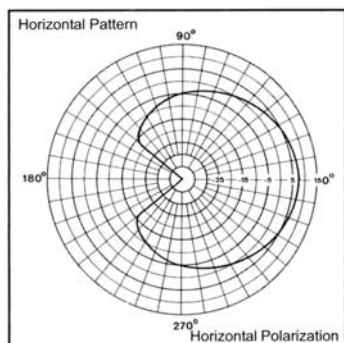
- Each antenna has a rugged design to withstand harsh environmental conditions.
- Single Dipole mounted in the front of a 90° reflector, providing good directivity and a very high front-to-back ratio.
- These antennas have ultra-low VSWR ratings, and will not exceed 2.0:1 VSWR ratio with 0.5" (13mm) of radial ice.
- The mounting hardware supplied will permit either vertical or horizontal polarization
- DC ground for lightning protection
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



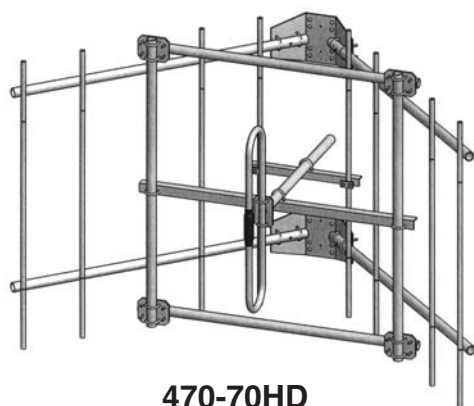
470-70HD

Electrical Specifications	470-70	470-70HD	471-70	471-70HD
Frequency Range, MHz	132-174	132-174	132-174	132-174
Nominal Gain, dBd	7.0	7.0	10.0	10.0
Bandwidth: 1.5:1 VSWR, MHz	15%	15%	15%	15%
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Ver. Pol)	67°	67°	50°	50°
Vertical Beamwidth (Ver. Pol)	75°	75°	66°	66°
Front to Back, dB	30	30	30	30
Pattern	Direct.	Direct.	Direct.	Direct.
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				
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 (161)	140 (225)	100 (161)	140 (225)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	85 (137)	100 (161)	85 (137)	100 (161)
Lateral Thrust @ 100mph 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 Information: (clamp included) For pipe size O.D. inch (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)

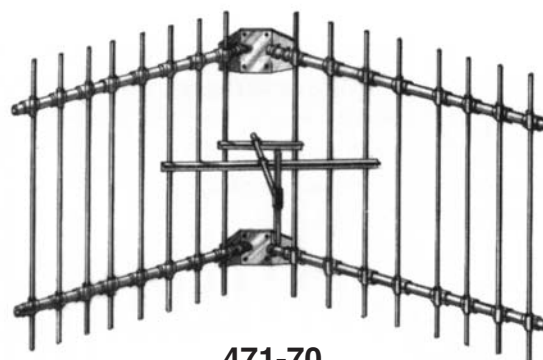
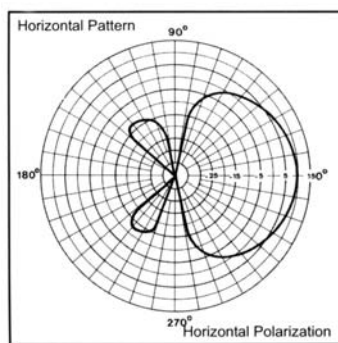
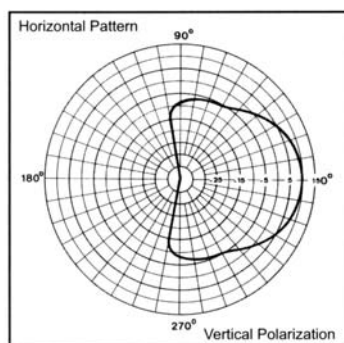
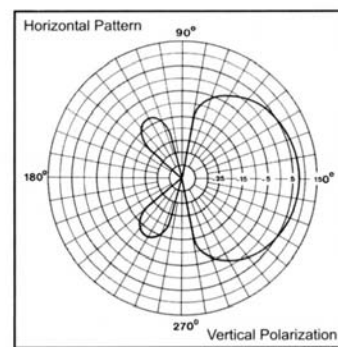
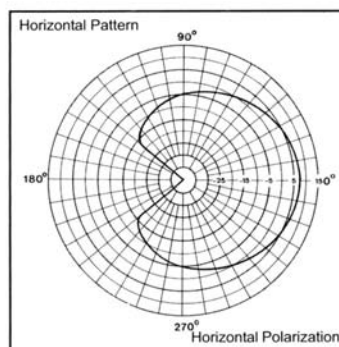
Ice breakers are available.



470-70



470-70HD

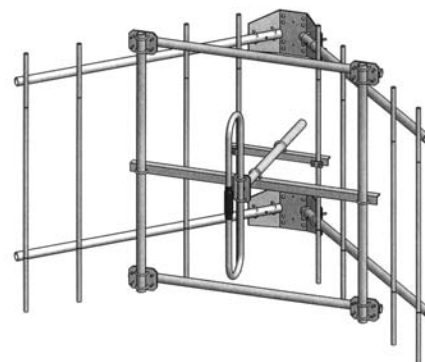


471-70

CP 220MHz Corner Reflector Antenna Series

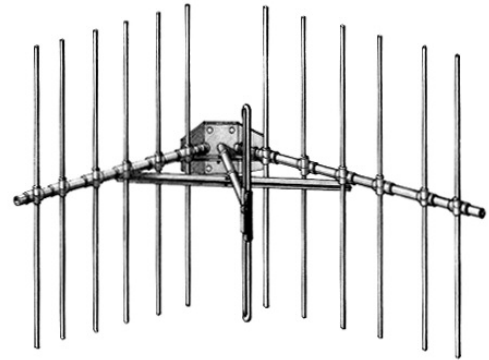
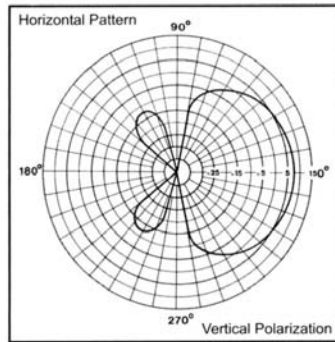
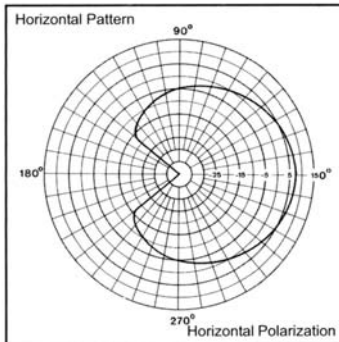
The Corner Reflector Antennas are available in VHF, UHF, 700/800/900MHz configurations. These antennas have an extremely good front-to-back ratio. They are broadband and are great for point-to-point applications. Performance is constant throughout the band.

- Each antenna has a rugged design to withstand harsh environmental conditions.
- Single Dipole mounted in the front of a 90° reflector, providing good directivity and a very high front-to-back ratio.
- These antennas have ultra-low VSWR ratings, and will not exceed 2.0:1 VSWR ratio with 0.5" (13mm) of radial ice.
- The mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.

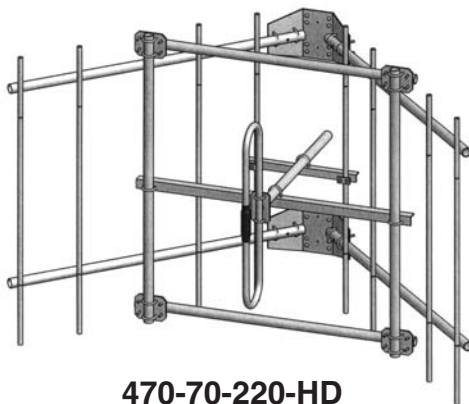


470-70-220-HD

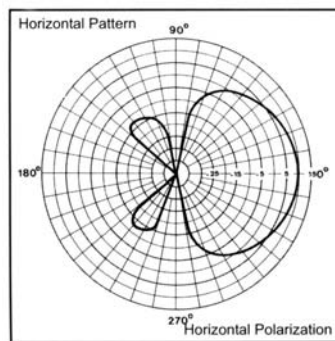
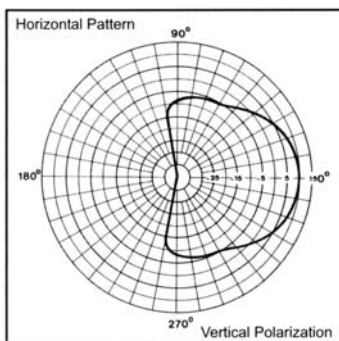
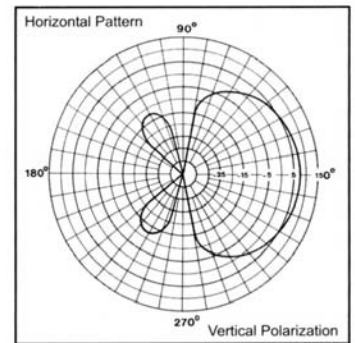
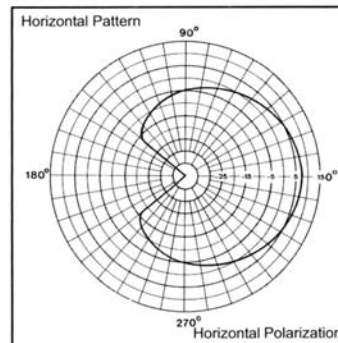
Electrical Specifications	470-70-220	470-70-220-HD	471-70-220
Frequency Range, MHz	215-225	215-225	215-225
Nominal Gain, dBd	7.0	7.0	10.0
Bandwidth: 1.5:1 VSWR, MHz	10	10	10
Polarization	Vert. Or Horiz.	Vert. Or Horiz.	Vert. Or Horiz.
Horizontal Beamwidth (Ver. Pol)	67°	67°	50°
Vertical Beamwidth (Ver. Pol)	75°	75°	66°
Front to Back, dB	30	30	30
Pattern	Direct.	Direct.	Direct.
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			
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 @ 100mph 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 Information: (clamp included) For pipe size O.D. inch (mm)	2.9 (73)	2.9 (73)	2.9 (73)



470-70-220



470-70-220-HD

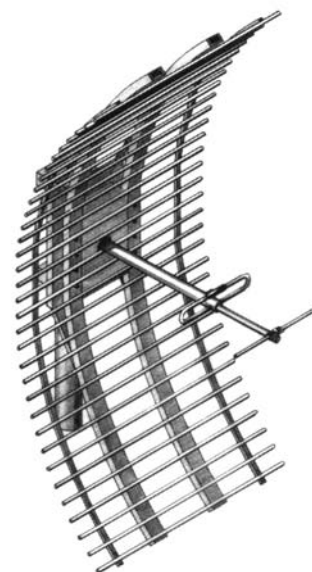


471-70-220

CP UHF Corner Reflector Antenna Series

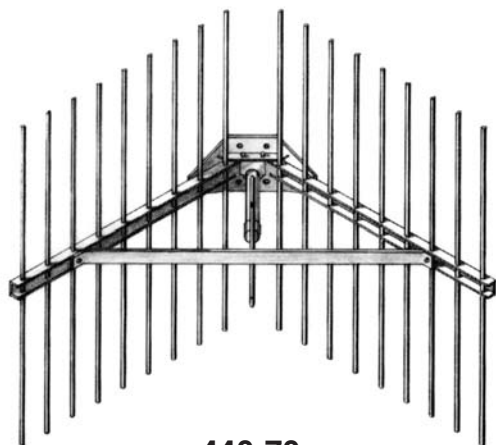
The Corner Reflector Antennas are available in VHF, UHF, 700/800/900MHz configurations. These antennas have an extremely good front-to-back ratio. They are broadband and are great for point-to-point applications. Performance is constant throughout the band.

- 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 and a very high front-to-back ratio.
- The 365-70 and 965-70 are 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 2.0:1 VSWR ratio with 0.5" (13mm) of radial ice.
- The mounting hardware supplied will permit either vertical or horizontal polarization
- DC ground for lightning protection
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.

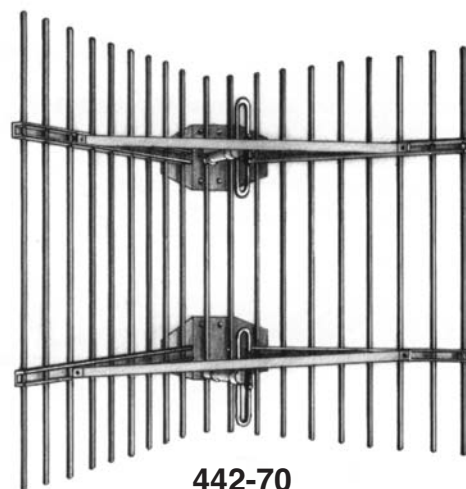
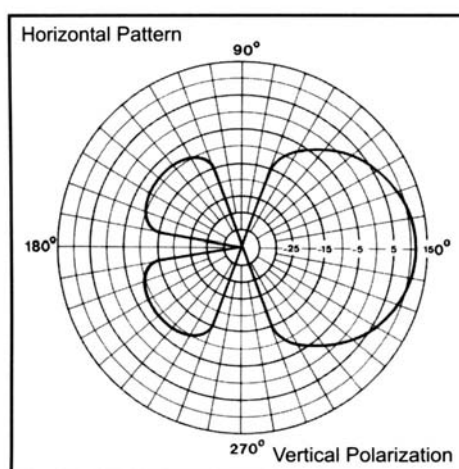
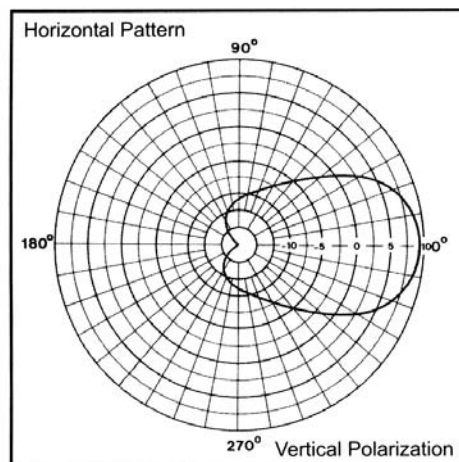


365-70

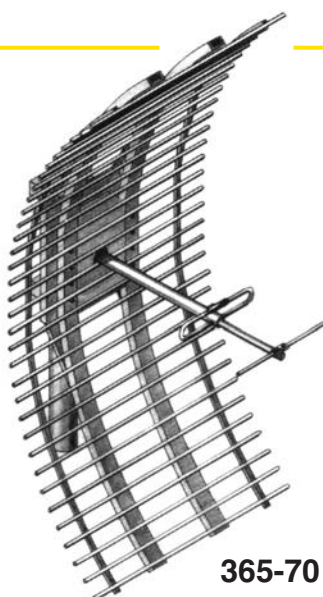
Electrical Specifications	440-70	442-70	365-70
Frequency Range, MHz	406-512	406-512	406-470
Nominal Gain, dBd	9.5	12.0	15.0
Bandwidth: 1.5:1 VSWR, MHz	64	64	20
Polarization	Vert. or Horiz.	Vert. or Horiz.	Vert. or Horiz.
Horizontal Beamwidth (Ver. Pol)	60°	40°	32°
Vertical Beamwidth (Ver. Pol)	45°	34°	18°
Front to Back, dB	25	25	24
Pattern	Direct.	Direct.	Direct.
Power Rating, Watts	100	100	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			
Length, in (mm)	30 (762)	48 (1219)	82 (2083)
Width, in (mm)	50 (1905)	50 (1905)	41 (1041)
Weight, lbs (kg)	22 (10)	42 (19.1)	25 (11.3)
Rated Wind Velocity: No Ice, mph (km/h)	125 (201)	125 (201)	100 (161)
Rated Wind Velocity: 0.5" (13mm) Ice, mph (km/h)	85 (137)	85 (137)	85 (137)
Lateral Thrust @ 100mph wind, lbs (kg)	97 (44)	185 (84)	233 (109)
Projected Area ft ² (m ²)	3.6 (0.34)	6.9 (0.64)	8.7 (0.8)
Mounting Information: (clamp included) For pipe size O.D. inch (mm)	2.9 (74)	2.9 (74)	2.9 (74)



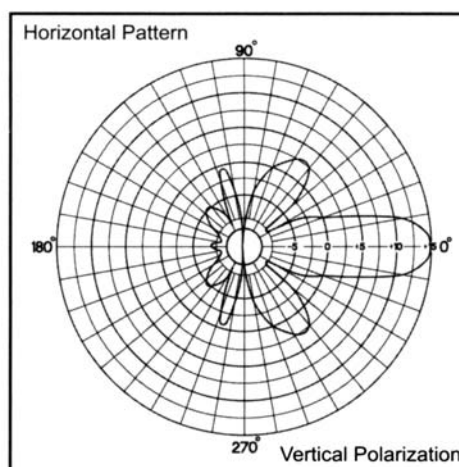
440-70



442-70



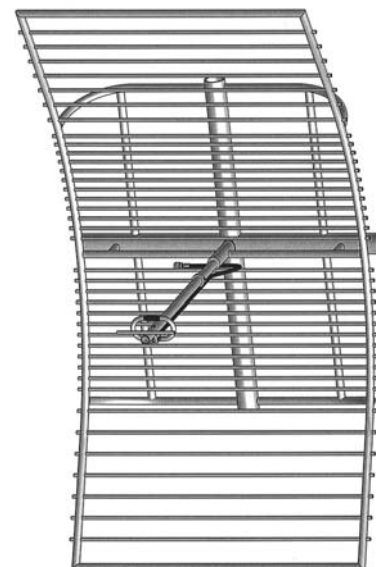
365-70



CP Parabolic Reflector Series Antennas

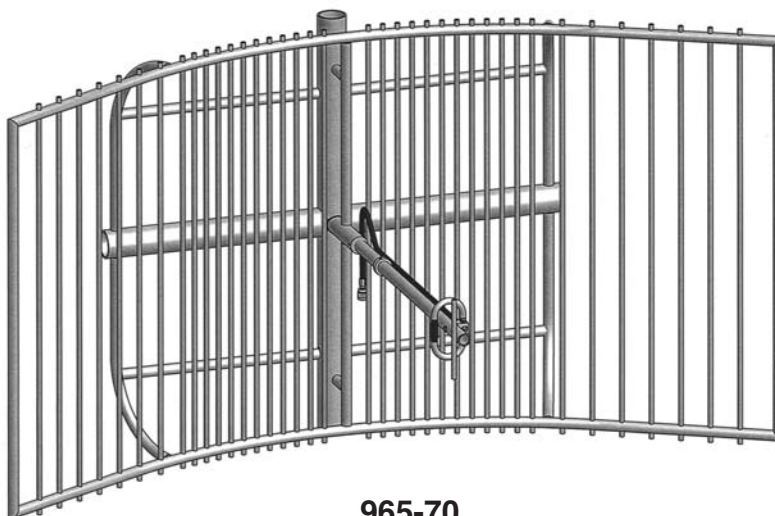
The Radeflector is a SRSP-507 Category A compliant antenna. These antennas have an extremely good front-to-back ratio. They are broadband and are great for point-to-point applications where restrictions on beam width are present. Performance is constant throughout the band.

- SRSP-507 Category A Compliant
- 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 2.0:1 VSWR ratio with 0.5" (13mm) 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, but please contact a Comprod Technical support technician for consultation.
 - 965-70B
 - 965-70BR

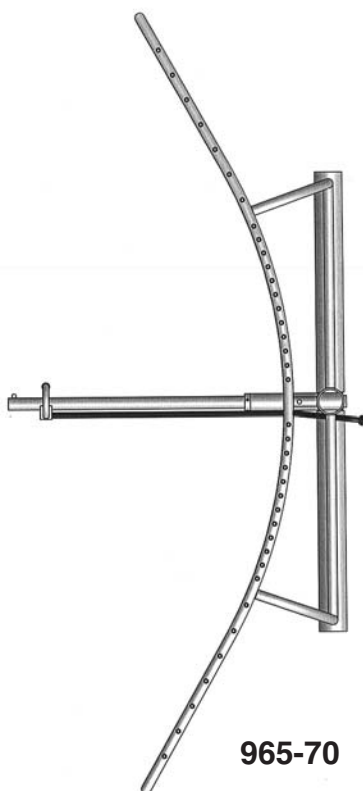


965-70

Electrical Specifications	965-70	965-70B	965-70BR
Frequency Range, MHz	806-960	806-960	806-960
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 (Ver. Pol)	12	12	12
Vertical Beamwidth (Ver. 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	DC	DC
Standard Termination	Type N Male	Type N Male	Type N Male
Mechanical Specifications			
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 Information: (Clamps incl.)	112-85	112-85	112-85



965-70

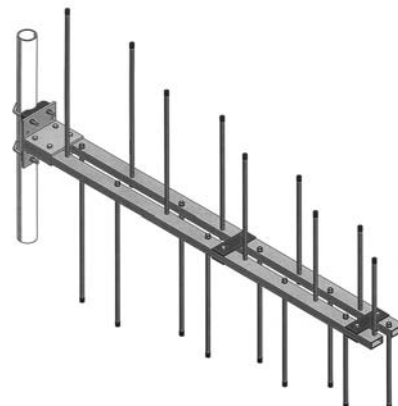


965-70

CP Log Periodic Series Antennas

The Log Periodic Antennas are available in VHF and UHF configurations. These antennas have an extremely good front-to-back ratio. They are wideband and are great 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.

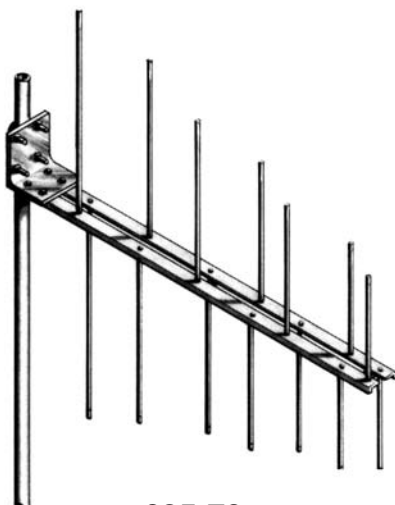
- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization
- DC ground for lightning protection
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



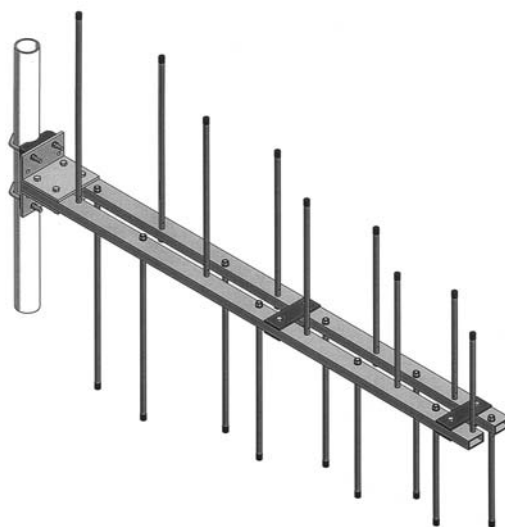
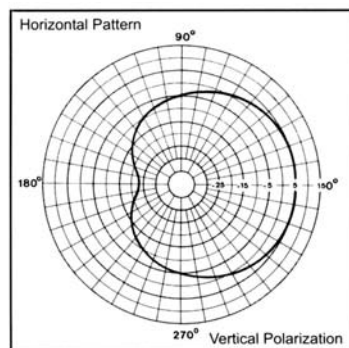
638-70

Electrical Specifications	635-70	636-70	638-70
Frequency Range, MHz	132-174	132-174	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 (Ver. Pol)	106°	106°	75°
Vertical Beamwidth (Ver. Pol)	60°	30°	55°
Front to Back, dB	25	25	25
Pattern	Direct.	Direct.	Direct.
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			
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)	8 (3.6)	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)	135 (217)
Lateral Thrust @ 100mph wind, lbs (kg)	31 (14)	31 (14)	47.5 (21.5)
Torsional Moment @ 100mph wind, lb*ft (kg*m)	56 (7.8)	n/a	121 (16.7)
Projected Area ft² (m²)	0.86 (0.08)	0.86 (0.08)	1.26 (0.120)
Mounting Information: Max Pipe Size.	1" to 2.5" (64mm)	1" to 2.5" (64mm)	1" to 2.5" (64mm)

Order Information	End Mount	Center Mount
635-70	635-70	n/a
636-70	n/a	636-70
638-70	638-70	n/a



635-70

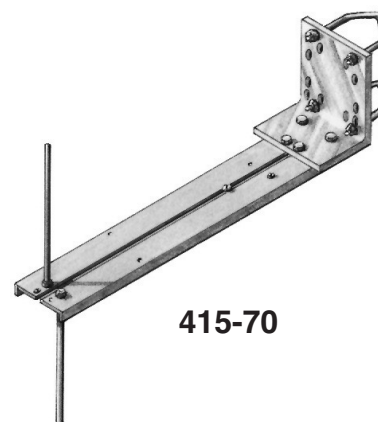


638-70

CP Log Periodic Series Antennas

The Log Periodic Antennas are available in VHF and UHF configurations. These antennas have an extremely good front-to-back ratio. They are wideband and are great 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.

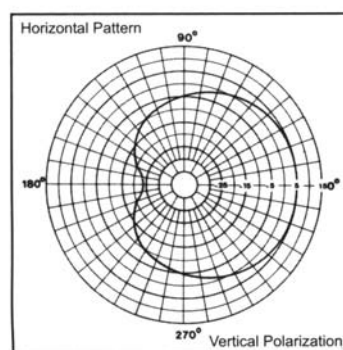
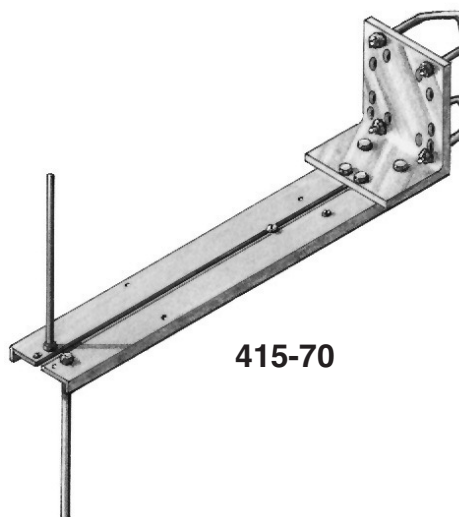
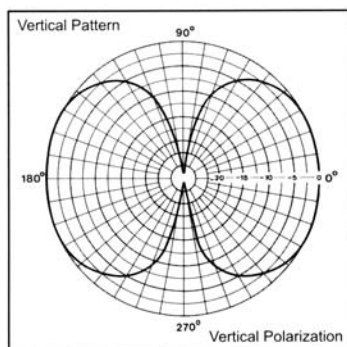
- Each antenna has a rugged design to withstand harsh environmental conditions.
- The mounting hardware supplied will permit either vertical or horizontal polarization
- DC ground for lightning protection
- Heavy Duty versions are available, but please contact a Comprod Technical support technician for consultation.



415-70

Electrical Specifications	415-70	465-70
Frequency Range, MHz	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 (Ver. Pol)	n/a	106°
Vertical Beamwidth (Ver. Pol)	84°	60°
Front to Back, dB	n/a	20
Pattern	Omni-Dir.	Uni Direct.
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		
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 @ 100mph wind, lbs (kg)	12 (5.4)	14 (6.4)
Torsional Moment @ 100mph wind, lb*ft (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.	1" to 2.5" (64mm)	1" to 2.5" (64mm)

Order Information	406-430MHz	435-470MHz	406-470MHz	450-512MHz
415-70	415-70*1	415-70*2	n/a	415-70*3
465-70	n/a	n/a	465-70*1	465-70*2



DATA ANTENNA

CP Data Antenna Series

The Data Antenna Series are high quality, high performance, utility grade antennas. We have many different versions of these antennas, but here are a few that showcase the ability of some of our more unique styled antennas.

We have developed antennas for point-to-point data transmissions using PCB surrounding hydro meters. We have modified mobile antennas, in order to produce low cost and effective base station antennas. We offer other antennas that maximize performance at no cost.

- Custom Developed
- Meet your specific needs
- Designed for any application as needed by the customer
- Heavy Duty Versions are available, but please contact a Comprod Technical support technician for consultation



590-75BSMO

Electrical Specifications	590-75BSMO
Frequency Range, MHz	902-928
Nominal Gain, dBi	2.0
Polarization	Vertical
Pattern	Omni
Power Rating, Watts	200
Nominal Impedance, Ohms	50
Standard Termination	Type N Female*
Mechanical Specifications	
Length, inches (mm)	min 14" @ lowest freq.
Diameter, inches (mm)	n/a
Weight, lbs (kg)	n/a
Radiator	Stainless Steel
Base	ABS, Ultrasonic Brass Insert
Contact	Spring Loaded, Gold Plated
Mounting	BSMOLC w/N-Female

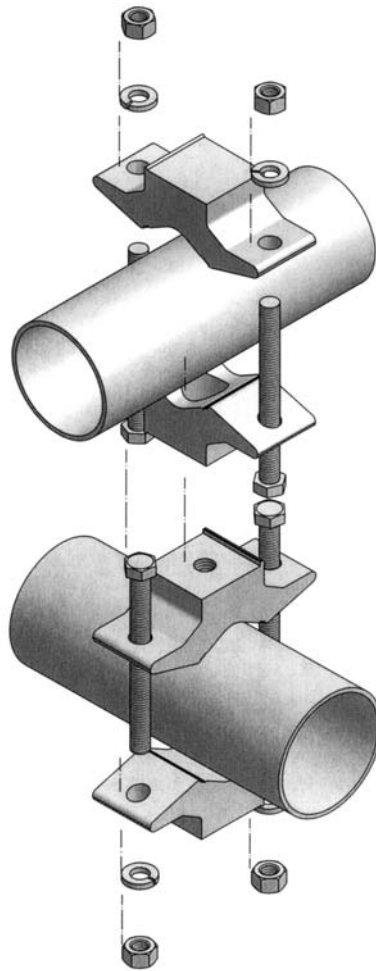
* Other Terminations are available.



CLAMPS

Our standard offering of clamps has evolved over the last 30 years and is among one of the best in the industry. Not only do we offer the following standard clamp designs, but we have developed many custom one-off's for several customers unique installation requests.

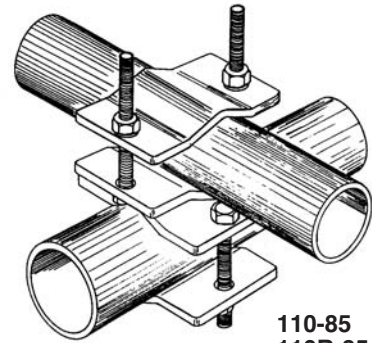
Most of our clamps are fabricated using hot-dipped galvanized high grade steel, that is incorporating oversized u-bolts and fastening hardware. We also offer stainless steel versions as an alternative in extremely corrosive environments.



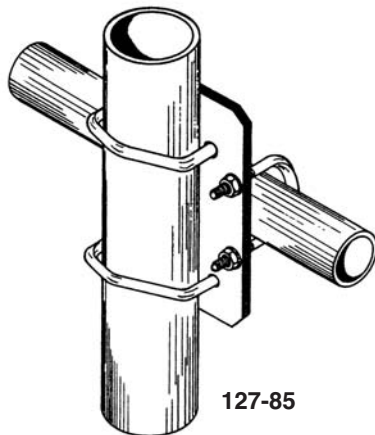
90° PIPE-TO-PIPE

CLAMPS

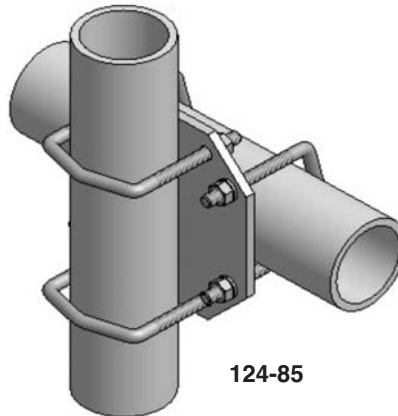
Model	1st Pipe	2nd Pipe
110-85	1.5" to 3.5" dia.	2.25" to 5" dia.
110R-85	1.5" dia.	2.25" to 5" dia.
115-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.
115R-85	1.5" dia.	1.5" to 3.5" dia.
124-85	1.0" to 2.5" dia.	1.0" to 2.4" dia.
127-85	1.0" dia.	1.0" to 2.4" dia.
132-85	1.9" dia.	1.0" dia.
134-85	1.5" dia.	0.75" dia.
171-85	1.9" dia.	1.9" dia.
181-85	1.5" dia.	1.0 to 2.4" dia.
185-85	1.9" dia.	1.5" dia.



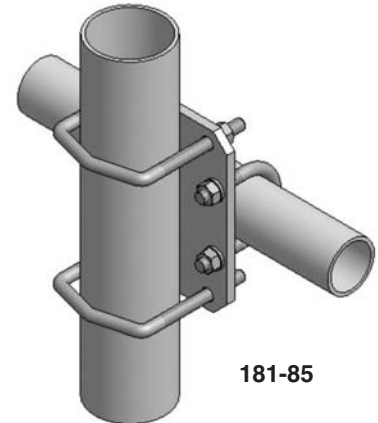
110-85
110R-85
115-85
115R-85



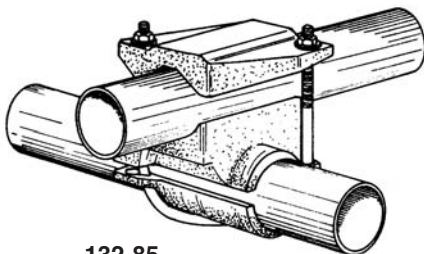
127-85



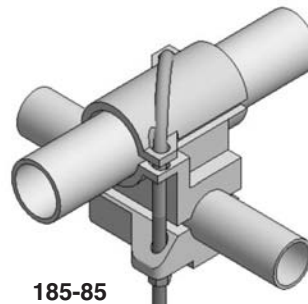
124-85



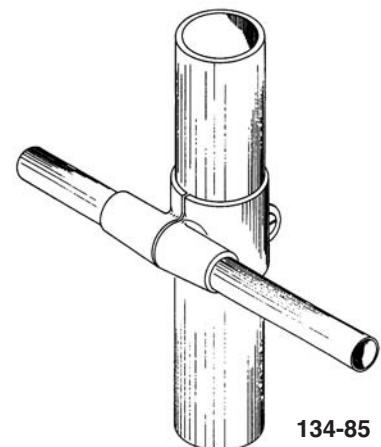
181-85



132-85
171-85

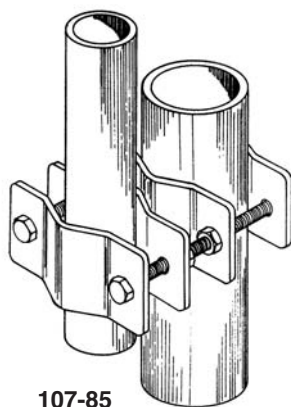


185-85



134-85

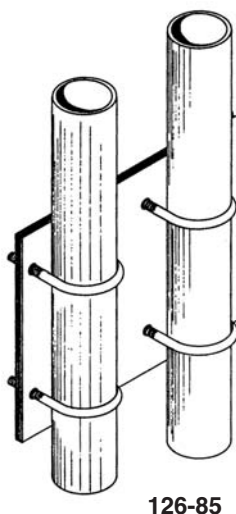
PARALLEL PIPE-TO-PIPE



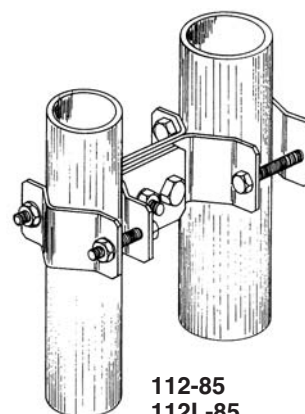
107-85

Model	1st Pipe	2nd Pipe
107-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.
108-85	2.5" to 5" dia.	2.5" to 5" dia.
112-85	1.5" to 3.5" dia.	1.5" to 3.5" dia.
112L-85	2.25" to 5" dia.	2.25" to 5" dia.
112M-85	1.5" to 3.5" dia.	2.25" to 5" dia.
121-85	2.375" dia.	2.375" dia.
126-85	1.5" dia.	1.5" to 2.0" dia.
167-85	1.5" dia.	0.75" to 2.375" dia.
167B-85	0.75" dia.	0.75" to 2.375" dia.

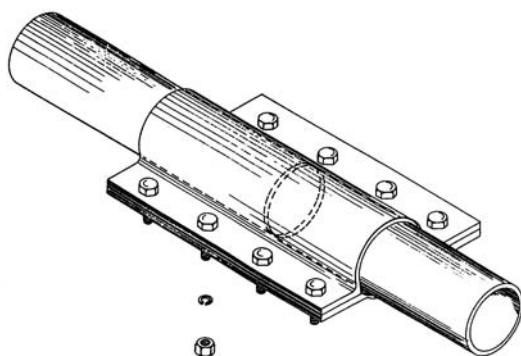
CLAMPS



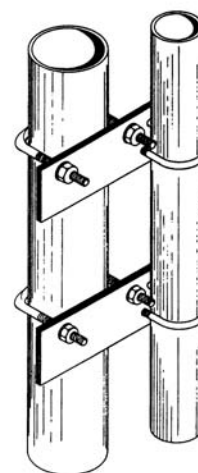
126-85



112-85
112L-85
112M-85



121-85

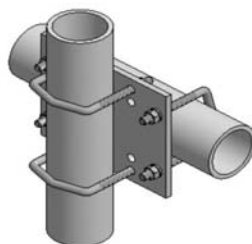


167-85
167B-85

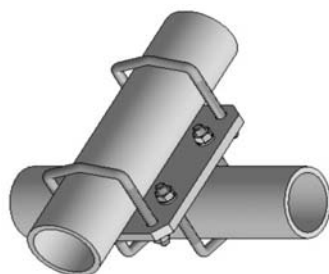
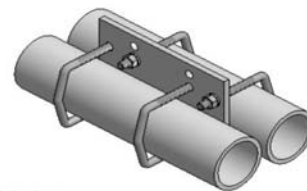
PARALLEL OR 90° PIPE-TO-PIPE

CLAMPS

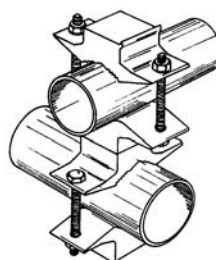
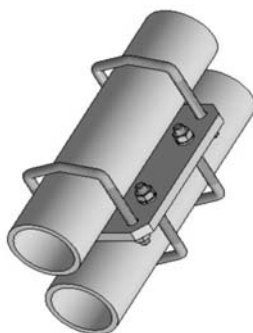
Model	1st Pipe	2nd Pipe
174-85	0.88" to 2.88" dia.	0.88" to 2.88" dia.
188-85	1.0" to 2.4" dia.	1.0" to 2.4" dia.
189-85	1.0" to 2.4" dia.	1.0" to 2.4" dia.



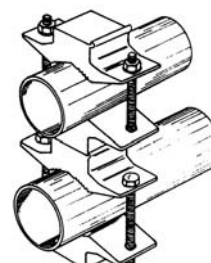
188-85



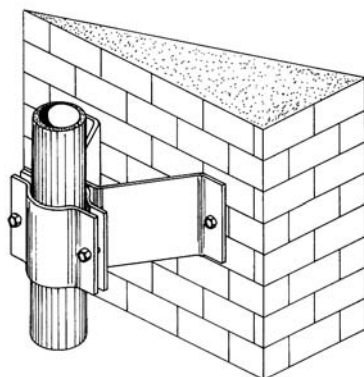
189-85



174-85

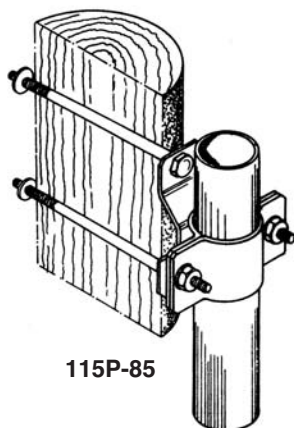


PIPE-TO-FLAT SURFACE (or wood pole)

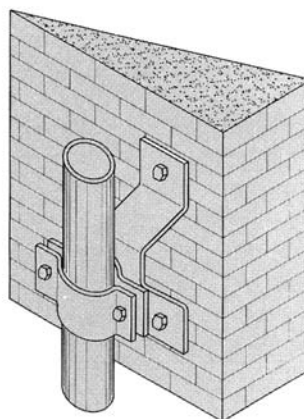


186-85

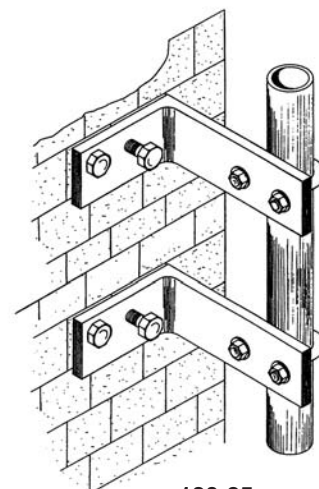
Model	Pipe O.D.
115P-85	1.5" to 3.5" dia.
115W-85	1.5" to 3.5" dia.
130-85	0.5" to 1.5" dia.
186-85	1.5" to 3.5" dia.



115P-85



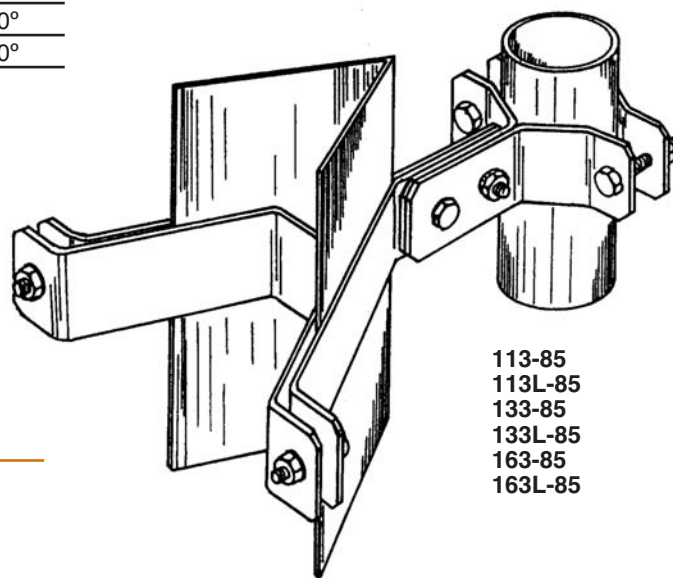
115W-85



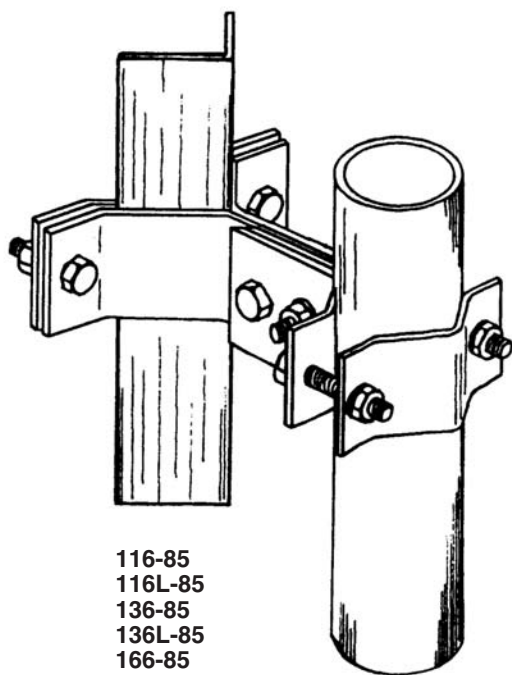
130-85

PARALLEL PIPE-TO-ANGLE

Model	1st Pipe	Angle
113-85	1.50" to 3.5" dia.	8" x 8" max. 60°
113L-85	2.25" to 5.0" dia.	8" x 8" max. 60°
116-85	1.50" to 3.5" dia.	8" x 8" max. 90°
116L-85	2.25" to 5.0" dia.	8" x 8" max. 90°
133-85	1.50" to 3.5" dia.	5" x 5" max. 60°
133L-85	2.25" to 5.0" dia.	5" x 5" max. 60°
136-85	1.50" to 3.5" dia.	5" x 5" max. 90°
136L-85	2.25" to 5.0" dia.	5" x 5" max. 90°
163-85	1.50" to 3.5" dia.	3" x 3" max. 60°
163L-85	2.25" to 5.0" dia.	3" x 3" max. 60°
166-85	1.50" to 3.5" dia.	3" x 3" max. 90°
166L-85	2.25" to 5.0" dia.	3" x 3" max. 90°



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

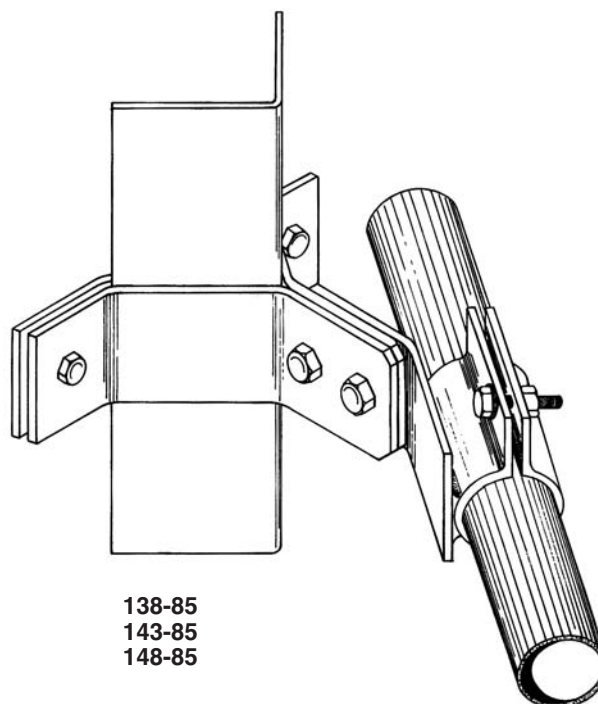
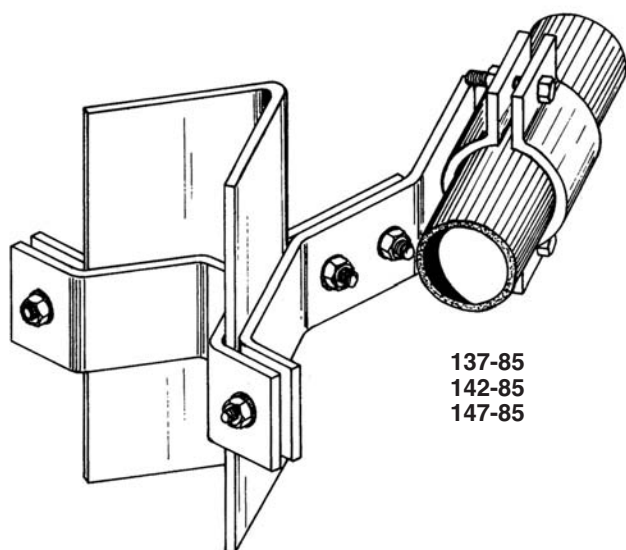


116-85
116L-85
136-85
136L-85
166-85
166L-85

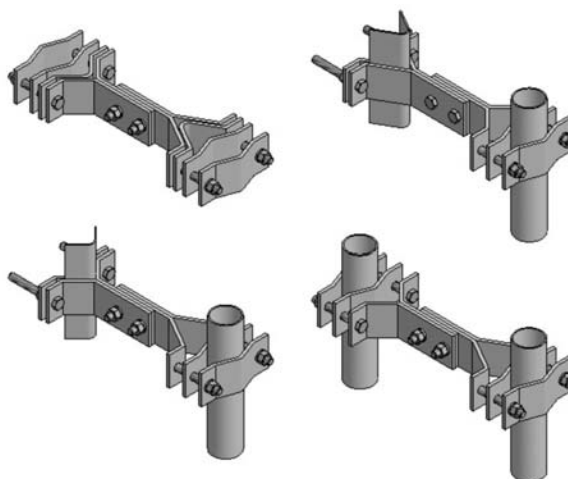
90° PIPE-TO-ANGLE

CLAMPS

Model	Pipe	Angle
137-85	1.5" to 3.5" dia.	5"x 5" max. 60°
138-85	1.5" to 3.5" dia.	5"x 5" max. 90°
142-85	1.5" to 3.5" dia.	8"x 8" max. 60°
143-85	1.5" to 3.5" dia.	8"x 8" max. 90°
147-85	1.5" to 3.5" dia.	3"x 3" max. 60°
148-85	1.5" to 3.5" dia.	3"x 3" max. 90°

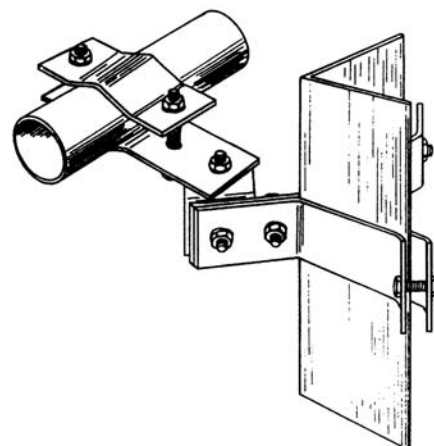


183-85	Pipe	Angle
Pipe to Angle	1.5" to 3.5" dia.	3.5"x 3.5" max. 60°
Pipe to Angle	1.5" to 3.5" dia.	2.75"x 2.75" max. 90°
183-85	Pipe	Angle
Pipe to Pipe	1.5" to 3.5" dia.	1.5" to 3.5" dia.



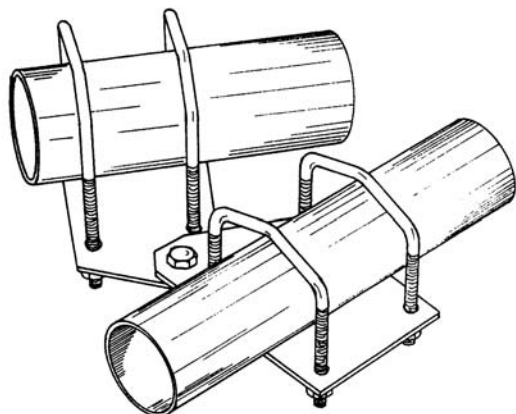
OMNIDIRECTIONAL PIPE-TO-ANGLE

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



CLAMPS

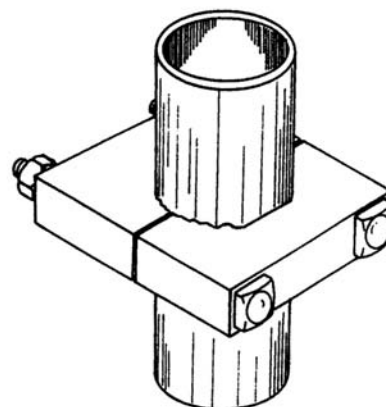
OMNIDIRECTIONAL PIPE-TO-PIPE



Model	1st Pipe	2nd Pipe
122-85	0.75" to 2.38" dia.	0.75" to 2.38" dia.

PIPE-TO-FLAT SURFACE

Model	Pipe
172-85	2.88" dia.
173-85	2.38" dia.



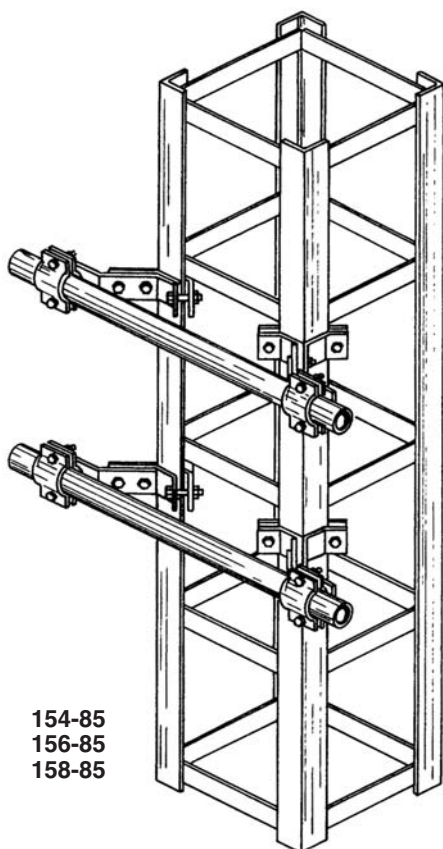
SIDE-MOUNTING ASSEMBLY

CLAMPS

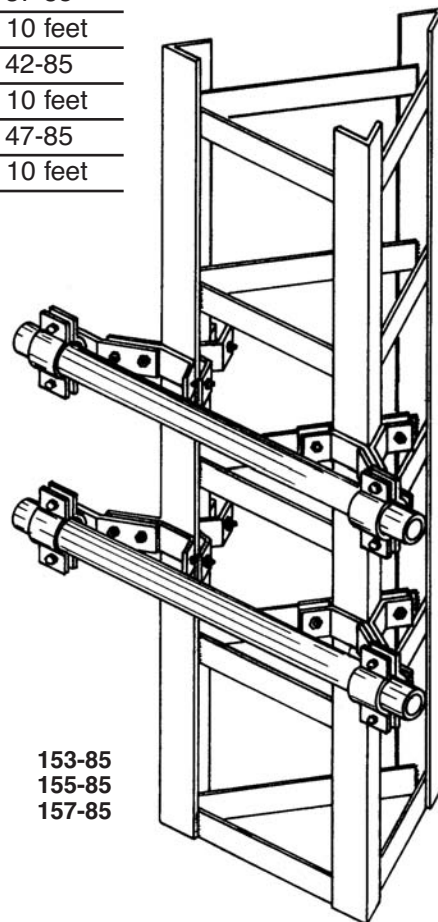
Model	Tower Leg	Holder Section	Tower
153-85	5"x 5" max. 60°	1.5" to 3.5"	60° * 5"
155-85	8"x 8" max. 60°	1.5" to 3.5"	60° * 8"
157-85	3"x 3" max. 60°	1.5" to 3.5"	60° * 3"

EACH KIT INCLUDES

153-85	4 Clamps Model 137-85
	2 Al pipe 2" #40 x 10 feet
155-85	4 Clamps Model 142-85
	2 Al pipe 2" #40 x 10 feet
157-85	4 Clamps Model 147-85
	2 Al pipe 2" #40 x 10 feet



154-85
156-85
158-85



153-85
155-85
157-85

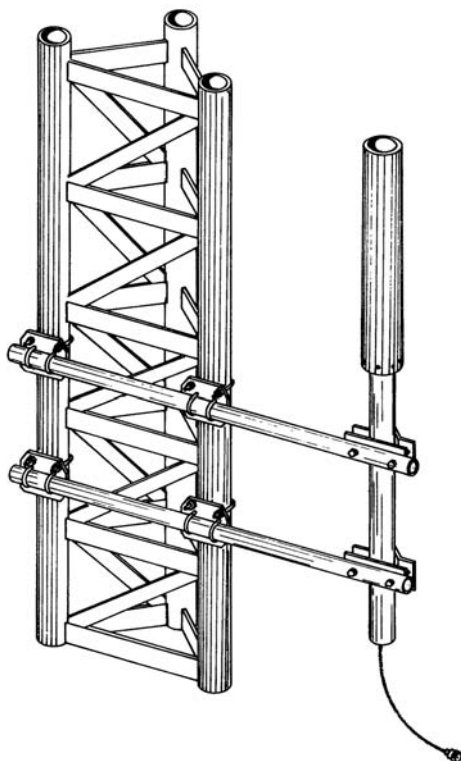
EACH KIT INCLUDES

154-85	4 Clamps Model 138-85
	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

Model	Tower Leg	Holder Section	Tower
154-85	5"x 5" max. 90°	1.5" to 3.5"	90° * 5"
156-85	8"x 8" max. 90°	1.5" to 3.5"	90° * 8"
158-85	3"x 3" max. 90°	1.5" to 3.5"	90° * 3"

SIDE-MOUNTING ASSEMBLY

Model	Tower Leg	Holder Section	Tower
150-85	0.875" to 3"	Al. pipe 1.9" O.D. x 120"	1.50"-40
151-85	0.875" to 3"	Al. pipe 1.9" O.D. x 60"	1.50"-40
152-85	0.875" to 3"	Al. pipe 2.375" O.D. x 120"	2.00"-40



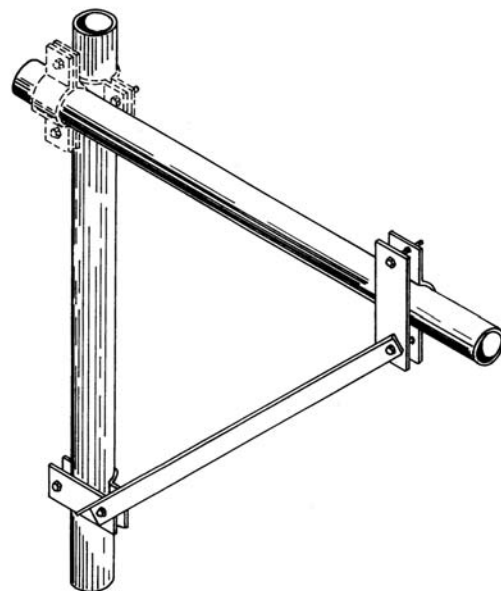
EACH KIT INCLUDES

150-85	4 Clamps Model 124-85
	2 Support pipes 1.5" #40 x 10 feet
151-85	4 Clamps Model 124-85
	2 Support pipes 1.5" #40 x 5 feet
152-85	4 Clamps Model 124-85
	2 Support pipes 2" #40 x 10 feet

CLAMPS

YAGI HOLDER KIT

Model	Tower Leg	Holder Section
123-85	1.5" to 3.5"	Al. angle 1.5" x 1.5" x .1875"





IN-BUILDING ANTENNA SYSTEMS

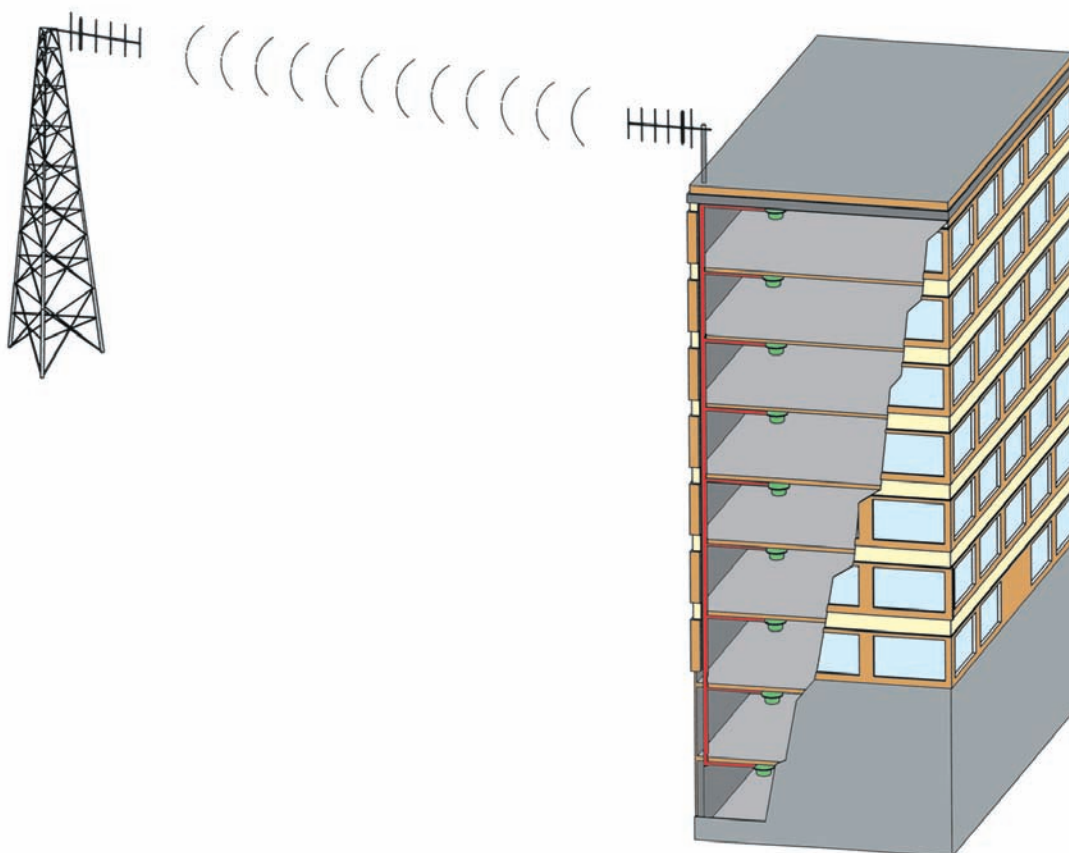
Our in-building antenna systems are very unique in the industry. All of our antennas are by-products of our customers needs, subway projects, high-rise in-building systems, nuclear power plants, correction facilities, and many more.

Our line of antenna system solutions incorporates single, dual, triple, quad, and 5-band frequency specifications. Our in-house R&D team works with our customers to develop antennas that meet their exact project needs. These antennas are offered in a wide range of radomes, low-profile, 6200 Kydex Fire-Retardant material, ABS High-Impact, aluminum, and custom colors.

We can provide antenna systems, splitters, couplers, taps, cables, connectors, BDAs, and many other necessary components. In our arsenal of antenna products we offer a solution for many applications.

We offer many different versions and frequencies; the following antenna products are just a sampling. We encourage you and your team to contact us for either technical support or to request a potential new design.

**Please call for a custom antenna design
or to see our other available models.**



MULTI-BAND ANTENNAS

Multi-Band In-Building Antennas

Our antennas are designed, manufactured and integrated with the most innovative and highly specialized processes, providing our customers with a solid, long-lasting solution for their in-building applications.

Our multi-band antennas are one-of-a-kind and many are the only ones available in the world. They can cover more than three bands in most cases and provide an idea of some of our products.

We offer a wide variety of our antennas with Fire Retardant 6200 Kydex radomes. These radomes are designed for use in in-building applications and 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.

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F-33005

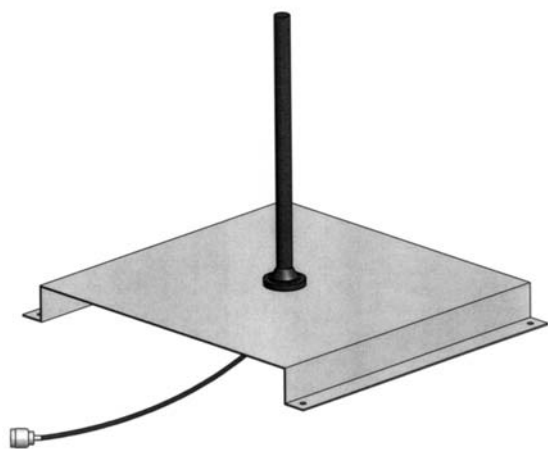


F-33005

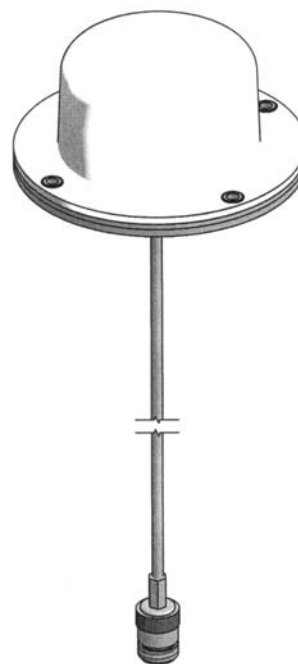
IN-BUILDING

Electrical Specifications	F-33005	F-33048
Frequency Range, MHz	806-960 / 1850-1990	740-960
Nominal Gain, dBd	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz		
138-174	n/a	n/a
406-512	n/a	n/a
740-960	n/a	220 - Full Band
806-960	72	n/a
1800-1990	140	n/a
Polarization	Vertical	Vertical
Pattern	Omni	Omni
Power Rating, Watts	50	50
Nominal Impedance, Ohms	50	50
Radome	6200 Kydex	6200 Kydex
Standard Termination	N Female	3' Jumper - N Female
Mechanical Specifications		
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)
Min. Ground Plane Size, in (mm)	8 x 8 (203 x 203)	8 x 8 (203 x 203)
Mounting Information	Not Included	Not Included

Please call for other available models.



F-3941



F-33048



F-3741NGP

Multi-Band In-Building Antennas

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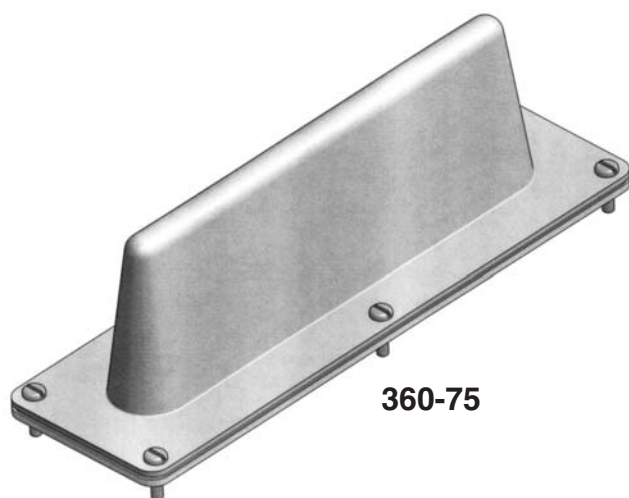


362-75

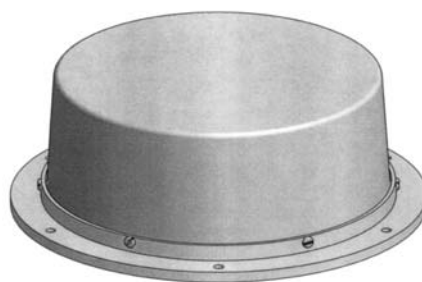
IN-BUILDING

Electrical Specifications	357-75	360-75	361-75	362-75
Frequency Range, MHz	136-174	406-512	806-960	806-960
Nominal Gain, dBd	Unity	Unity	Unity	Unity
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	Omni	Omni	Omni	Omni
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 Kydex
Color	Grey / White	Grey / White	Grey / White	Grey / White
Standard Termination	UHF / BNC	UHF / BNC	N Female	N Female
Mechanical Specifications				
Length, in (mm)	4.0 (102)	3.0 (76)	3.15 (80)	2.0 (51)
Length, in (mm)	21.0 (533)	11.0 (279)	9.3 (236)	4.5 (114)
Width, in (mm)	3.0 (76)	3.25 (83)	n/a	n/a
Weight, lbs (kg)	2.1 (0.945)	1.0 (0.45)	2.5 (1.15)	0.375 (0.169)
Min. Ground Plane Size, inches (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)

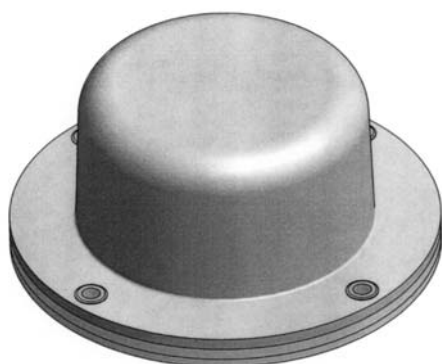
Please call for other available models.



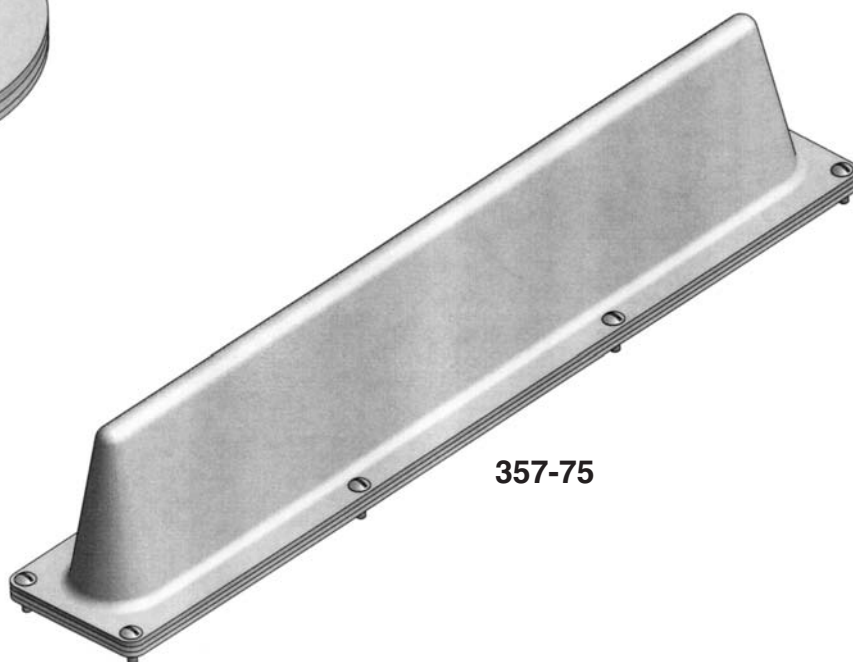
360-75



361-75



362-75



357-75

In-Building Antennas

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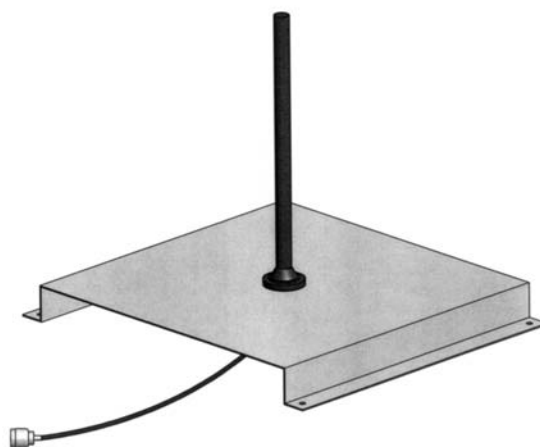
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F-3953

Electrical Specifications	F-3987	F-3953
Frequency Range, MHz	380-470	406-512
Nominal Gain, dBd	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz	90 @ (2:0:1)	406-470 / 450-512
Polarization	Vertical	Vertical
Pattern	Omni	Omni
Power Rating, Watts	150	50
Nominal Impedance, Ohms	50	50
Radome	Aluminum	Polycarbonate
Color	Black or White	Black or White
Lightning Protection	DC Ground	DC Ground
Standard Termination	NMO	N - Male
Mechanical Specifications		
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
Min. Ground Plane Size, in (mm)	n/a	8 x 8 (203 x 203)
Mounting Information	Mobile Mount	Included

Please call for other available models.



F-3941



F-3953

MULTI-BAND ANTENNAS

Multi-Band In-Building Antennas

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Our antennas have been installed all over the world. Some typical installations are Nuclear Power Plants, Correction Centers, Tunnels, High-Rise Buildings, SubWays, Light & Heavy Rail, Power Plants, High-Security Office networks, and Mine Shafts.

The F-3741 has been designed for mounting on a concrete surface. This is a requirement for meeting full bandwidth specification.



F-3749

IN-BUILDING

Electrical Specifications	F-3741*	F-3749*	F-33120
Frequency Range, MHz	VHF / UHF / 806-960	VHF / UHF / 806-960	406-430 / 806-870 / 1800-1990
Nominal Gain, dBd	Unity	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz			
138-174	8	8	n/a
406-512	64	64	24
764-890	126	126	n/a
806-960	154	154	64
1800-1990	n/a	n/a	190
2400-3000	n/a	n/a	n/a
Polarization	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional
Power Rating, Watts Total	50	50	50
Nominal Impedance, Ohms	50	50	50
Radome	Polycarbonate	6200 Kydex	6200 Kydex
Color	Black	White	White
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	N Male	N Female	N Female
Mechanical Specifications			
Length, inch (mm)	11.25 (286.88)	9.78 (249)	5.5 (140)
Diameter, inch (mm)	0.65 (16.575)	7.0 (178.5)	9.8 (248)
Weight, lbs (kg)	n/a	n/a	2.5 (1.15)
Min. Ground Plane Size, inches (mm)	Included	14 x 14 (357 x 357)	14 x 16 (356 x 406)

* 700MHz is also available

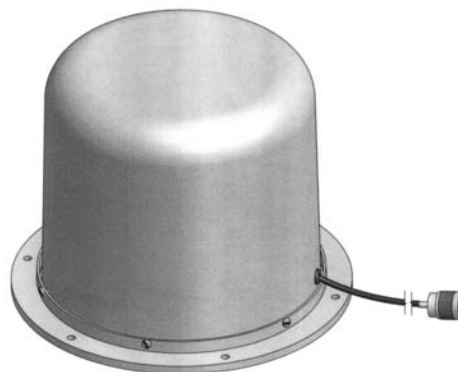
** Comes with pigtail and N Male connector.

Please call for more available models.

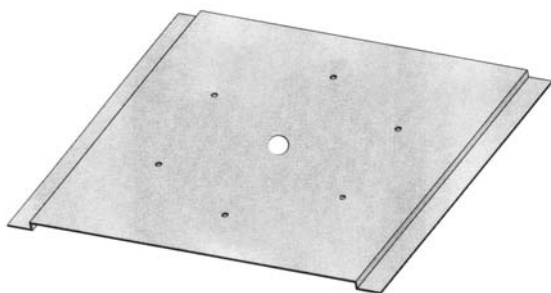
Specify frequencies when ordering.



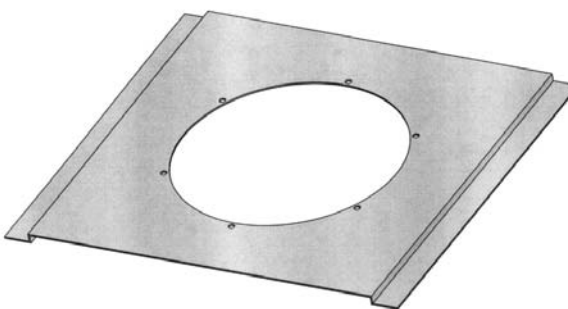
F-3749



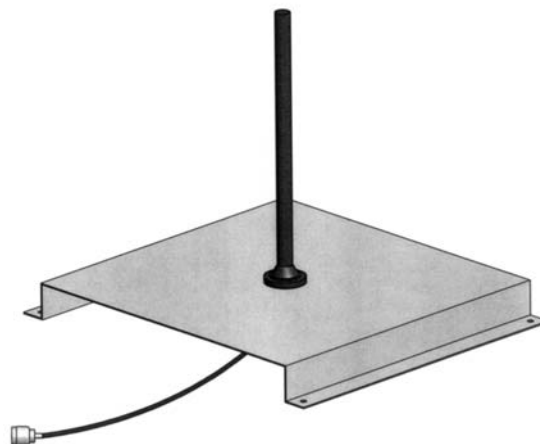
F-3749A**



F-33034
Optional Mounting Bracket



F-33220
Optional Mounting Bracket



F-3741



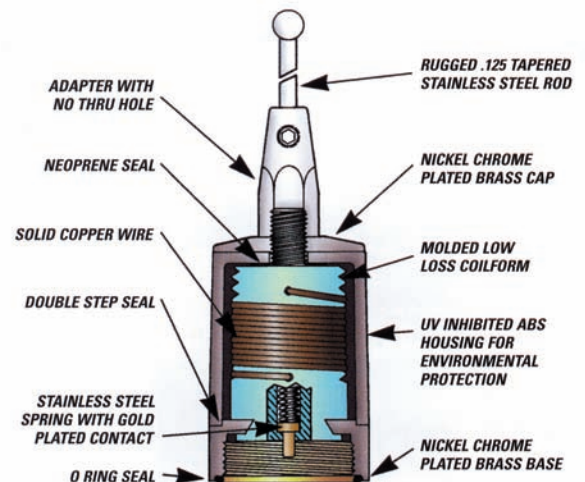
MOBILE AND TRANSIT ANTENNAS

Our Mobile and Transit antenna lines are the best and most unique products in the market. All of our products are suited for Government and Utility applications, long-term, hassle-free installations.

We use Stainless Steel whips, incorporate High Impact ABS, and Gold Plated spring loaded contacts when ever possible, insuring long-term reliability and performance.

Our multi-band antennas have been developed for transmitting and receiving Data, Voice, and Video. Ideal for applications that require install and forget capabilities.

We have developed many Wideband and Full-Band VHF, UHF, and 700/800/900MHz antenna models. Please call for more details.



		Frequency							Gain				Options			
	Model	Lo-Band	VHF	220	UHF	700	800	900	DUAL	Unity	2dB	3dB	5dB	NGP	Black	W/ Spring
Mobile Antenna	515-75		•									•				•
	550-75		•	•	•	•	•	•		•					550-75B	
	555-75		•	•	•	•	•	•		•					555-75B	
	552-75		•	•	•					•					552-75B	552-75S
	565-75	•								•					565-75B	565-75S
	577-75		•								•			•		577-75S
	580-75		•									•			580-75B	580-75S
	583-75				•							•			583-75B	583-75S
	588-75				•									•	588-75B	588-75S
	590-75						•	•				•			590-75B	
	591-75					•	•	•				•			591-75B	
	592-75						•	•				•				
	595-75						•	•					•		595-75B	•
	599-75						•	•				•			•	•
Dual Band	690-75								•						•	
	692-75								•						692-75B	
	694-75								•						694-75B	
	696-75								•						696-75B	
Transit	357-75			•						•						
	358-75			•						•						
	359-75				•					•						
	360-75				•					•						
	361-75					•	•	•		•						
	362-75					•	•	•		•						



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 moulded 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 and overlap construction keep moisture out of the antenna.

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

Electrical Specifications

Frequency Range, MHz	27-54
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	200
VSWR	1.5:1
Bandwidth	2% of center freq.

Mechanical Specifications

Radiator: Brite A Black B	Tapered S.S., 125 dia. Tapered S.S., 100 dia.
Base	ABS, spring loaded contact
Length, in	52 Maximum
Mounting	Std. Motorola type, 3/4

Ordering Information

Frequency	Brite	Black
27-31MHz	565-75A-1	565-75B-1
30-35MHz	565-75A-2	565-75B-2
34-40MHz	565-75A-3	565-75B-3
40-47MHz	565-75A-4	565-75B-4
47-54MHz	565-75A-5	565-75B-5

Performance: The 5/8-wave antenna provides 3dB of gain and is designed for heavy-duty service.

Durable: The 5/8-wave radiator and integral base-loading coil are fabricated from 17-7PH spring tapered stainless steel.

Reliable: This antenna will withstand severe flexing without taking an undesirable "set".

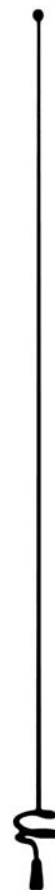
Versatile: The antenna is supplied full length with a set of field cutting instructions.

Standard Mounting: The 516-75 antenna is shipped with the 451-75 mount, 17ft. (5.2m) RG-58U and PL-259 connector.

Electrical Specifications	
Frequency Range, MHz	132-174
Gain, dB	3
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth / VSWR	4MHz / 1.5:1 7MHz / 2.0:1

Mechanical Specifications	
Radiator	17-7PH S.S.
Length, in	55 Maximum
Mounting, in	5/16 Standard

Ordering Information	
Description	Model
Complete antenna including 451-75 Base, 3/8" Snap mount, 17ft coax and PL-259 conn.	516-75
Whip ass'y and ferrule only	515-75



515-75 Series



552-75 Series

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

Stylish and Durable: These antennas are manufactured using the finest corrosion resistant materials and finishes available. They come with an integrated shock spring and a heavy duty S.S. 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 24MHz of bandwidth at VHF frequencies and 100MHz of bandwidth at UHF frequencies.

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

Electrical Specifications

Frequency Range, MHz	132-512
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth / VSWR	24MHz @ VHF / 2.0:1 100MHz @ UHF / 2.0:1

Mechanical Specifications

Radiator: Brite A Black B	Tapered S.S. whip., 125 Tapered S.S. whip., 100
Base	Ultrasonic brass insert
Contact	Spring loaded, gold plated
Length, in (mm)	21.5 (55) at 138MHz
Mounting	Motorola type, 3/4

Ordering Information

Description	Model
Brite finish, triple plated chrome	552-75A
Black finish	552-75B

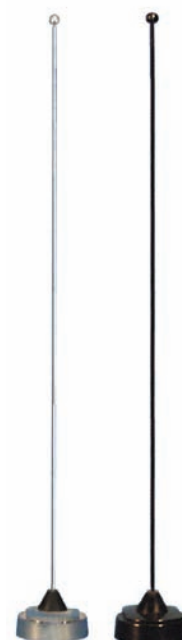
Performance: These antennas provide unity gain in a wideband design for heavy-duty service.

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

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

Versatile: They are shipped with a 20" whip that can be cut to any frequency between 136 and 960MHz. They can also be supplied cut and tested to a specific frequency at no extra charge.

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



555-75 Series

Electrical Specifications

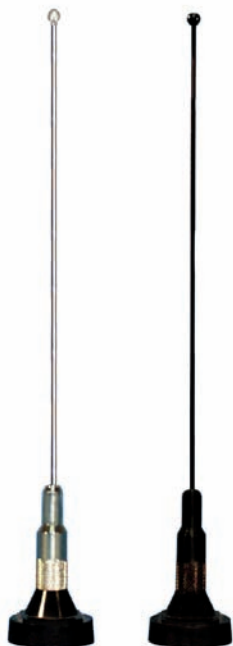
Frequency Range, MHz	132-960
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	200
VSWR	1.5:1
Bandwidth / VSWR	12MHz @ VHF / 2.0:1 50MHz @ UHF / 2.0:1

Mechanical Specifications

Radiator: Brite A Black B	Tapered S.S., 100 dia. Tapered S.S., 100 dia.
Base	ABS
Length, in	20 Maximum
Mounting	Std. Motorola type, 3/4

Ordering Information

Description	Model
Brite finish, triple plated chrome	555-75A
Black finish	555-75B



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 available.

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

Versatile: They are shipped with a 20" whip that can be cut to any frequency between 136 and 960MHz. They can also be supplied cut and tested to a specific frequency, at no extra charge.

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

Electrical Specifications

Frequency Range, MHz	136-960
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth / VSWR	12MHz @ VHF / 2.0:1 50MHz @ UHF / 2.0:1

Mechanical Specifications

Radiator	Stainless Steel
Base	ABS, Ultrasonic brass insert
Contact	Spring loaded contact
Length, in	20 maximum
Mounting	Standard Motorola type, 3/4

Ordering Information

Description	Model
Brite finish, triple plated chrome	580-75A
Black finish	580-75B

No Ground Plane Antenna

Performance: This broadband 1/2-wave antenna provides 2.0dB of gain over its operating bandwidth. No ground plane antenna.

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 moulded low loss coil form and a spring loaded, gold plated contact.

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

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



577-75 Series

Electrical Specifications

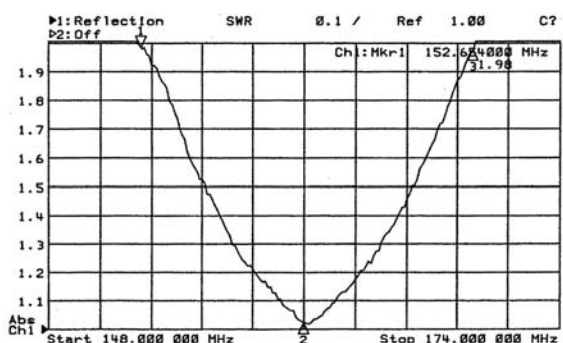
Frequency Range, MHz	136-174
Gain, dB	2.0
Impedance, Ohms	50
Power Rating, Watts	75
Bandwidth / VSWR	11 MHz @ VHF / 1.5:1 19 MHz @ VHF / 2.0:1

Mechanical Specifications

Radiator	17-7 PH S.S.
Base	ABS, spring loaded contact
Length, in	52 Maximum
Mounting	Standard Motorola type, 3/4

Ordering Information

Description	136-174MHz
Antenna Brite finish	577-75
With shock spring	577-75S





580-75 Series

Performance: 3dB 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 finest corrosion resistant materials and finishes available. The base is triple plated chrome brass with a large insert moulded 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 and overlap construction keep moisture out of the antenna.

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

Electrical Specifications

Frequency Range, MHz	132-174
Gain, dB	3
Impedance, Ohms	50
Power Rating, Watts	200
VSWR	1.5:1
Bandwidth, MHz	6

Mechanical Specifications

Radiator: Brite A Black B	Tapered S.S. whip., 125 Tapered S.S. whip., 100
Base	ABS, spring loaded contact
Length, in	55 whip
Mounting	Standard TAD / NMO type

Ordering Information

Description	Model
Brite finish, triple plated chrome	580-75A
Black finish	580-75B

To order with shock spring, add suffix S to part number.
Example: 580-75AS.

Performance: This broadband 5/8-wave antenna provides 3.0dB 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 moulded low loss coil form and a spring loaded, gold plated contact.

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

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



583-75 Series

Electrical Specifications

Frequency Range, MHz	406-512
Gain, dB	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	20MHz / 1.5:1

Mechanical Specifications

Radiator: Brite A	S.S. whip., 100
Black B	S.S. whip., 100
Base	ABS, spring loaded contact
Length, in	21 whip
Mounting	Standard TAD / NMO type

Ordering Information

Frequency	Brite	Black
406-430MHz	583-75A-1	583-75B-1
430-450MHz	583-75A-2	583-75B-2
450-470MHz	583-75A-3	583-75B-3
470-490MHz	583-75A-4	583-75B-4
490-512MHz	583-75A-5	583-75B-5

To order with shock spring, add suffix S to part number.
Example: 75AS-3.



591-75 Series

Performance: 3dB gain is achieved with these premium antennas by featuring a 5/8 wave over a 1/4 wave open coil design.

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

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

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

Electrical Specifications

Frequency Range, MHz	750-960
Gain, dB	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	70MHz / 2.0:1 or less

Mechanical Specifications

Radiator: Brite A Black B	S.S. whip., 100
Base	Ultrasonic brass insert
Contact	Leaf Design
Length, in	14 at lowest freq.
Mounting	Standard TAD / NMO type

Ordering Information

Frequency	Brite	Black
806-866MHz	591-75A-1	591-75B-1
825-896MHz	591-75A-2	591-75B-2
896-960MHz	591-75A-3	591-75B-3

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

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

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

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



590-75 Series

Electrical Specifications

Frequency Range, MHz	806-960
Gain, dB	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	70MHz / 2.0:1 or less

Mechanical Specifications

Radiator: Brite A Black B	Stainless Steel
Base	ABS, Ultrasonic brass insert
Contact	Spring loaded, gold plated
Length, in	14 at lowest freq.
Mounting	Standard TAD / NMO type

Ordering Information

Frequency	Brite	Black
806-866MHz	590-75A-1	590-75B-1
825-896MHz	590-75A-2	590-75B-2
896-960MHz	590-75A-3	590-75B-3



592-75 Series

Performance: 3dB gain is achieved with these premium antennas by featuring a 5/8 wave over a 1/4 wave closed coil design.

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

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

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

Electrical Specifications

Frequency Range, MHz	806-960
Gain, dB	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	70MHz / 2.0:1 or less

Mechanical Specifications

Radiator: Brite A Black B	Stainless Steel
Base	ABS, Ultrasonic brass insert
Contact	Spring loaded, gold plated
Length, in	14 at lowest freq.
Mounting	Standard TAD / NMO type

Ordering Information

Frequency	Brite	Black
806-866MHz	592-75-1	592-75B-1
825-896MHz	592-75-2	592-75B-2
896-960MHz	592-75-3	592-75B-3

High Performance: A full 3.5dB gain is achieved in this antenna by featuring a 5/8 wave over a 1/2 wave design.

Stylish and Durable: The 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 keep moisture out of the antenna.

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



595-75 Series

Electrical Specifications

Frequency Range, MHz	806-970
Gain, dB	3.5
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	70MHz / <2.0:1

Mechanical Specifications

Radiator: Brite A Black B	Stainless Steel
Matching coil	Silver plated enclosed coil
Base	ABS, spring loaded contact
Contact	Gold plated, spring loaded
Length, in	18 at lowest freq.
Mounting	Standard TAD / NMO type

Ordering Information

Frequency	Brite	Black
806-866MHz	595-75A-1	595-75B-1
825-896MHz	595-75A-2	595-75B-2
896-970MHz	595-75A-3	595-75B-3



599-75 Series

Performance: 3dB gain is achieved with this antenna by featuring a 5/8 wave over a 1/4 wave design with an elevated feed point. This antenna requires no ground plane as a result of its collinear design.

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.

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

Electrical Specifications

Frequency Range, MHz	806-960
Gain, dBd	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	70MHz / 2.0:1 or less

Mechanical Specifications

Radiator	Black Stainless Steel
Base	Open coil
Contact	Solid brass base
Length, in	23 at lowest freq.
Mounting	Standard TAD / NMO type
Finish	Black

Ordering Information

Frequency	Black finish
806-866MHz	599-75-1
825-896MHz	599-75-2
896-960MHz	599-75-3

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

Stylish and Durable: These antennas are manufactured using the finest 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 keep moisture out of the antenna.

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



690-75 Series

Electrical Specifications

Frequency (Full Band)	806-940 / 1710-1970
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth / VSWR	Full Band <2.2:1

Mechanical Specifications

Radiator	Stainless Steel
Base	ABS, Ultrasonic Brass Insert
Contact	Gold plated spring loaded
Length, in	4
Mounting	Standard TAD / NMO type
Finish	Black



692-75 Series

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

Stylish and Durable: These antennas are manufactured using the finest 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 keep moisture out of the antenna.

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

Electrical Specifications

Frequency (Full Band)	900-930 / 2400-2500	900-930 / 2400-2500
Gain	2.0	2.0
Impedance, Ohms	50	50
Power Rating, Watts	250	250
Bandwidth / VSWR	Full Band <2.0:1	Full Band <2.0:1

Mechanical Specifications

Base	ABS	ABS
Contact	Gold plated spring loaded	Gold plated spring loaded
Length, in	3	3
Mounting	Standard TAD / NMO type	Standard TAD / NMO type
Finish	Brite	Black

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

Stylish and Durable: These antennas are manufactured using the finest 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 keep moisture out of the antenna.

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



696-75 Series

Electrical Specifications		
Frequency (Full Band)	880-1200 / 2300-2600	1100-1500 / 2400-2800
Gain, dbd	Unity	Unity
Impedance, Ohms	50	50
Power Rating, Watts	200	200
Bandwidth / VSWR	<2.0:1	<2.0:1

Mechanical Specifications		
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
Length, in	2-3/4	2-3/4
Mounting	Standard TAD / NMO type	Standard TAD / NMO type
Finish	Black / White	Black / White



694-75 Series

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

Stylish and Durable: These antennas are manufactured using the finest 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 keep moisture out of the antenna.

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

Electrical Specifications

Frequency (Full Band)	806-960 / 1850-1990	1100-1500 / 2400-2800
Gain, dbd	2.0	2.0
Impedance, Ohms	50	50
Power Rating, Watts	250	250
Bandwidth / VSWR	<2.0:1	<2.0:1

Mechanical Specifications









Base	ABS	ABS
Contact	Gold Plated Spring Loaded	Gold Plated Spring Loaded
Length, in	4	4
Mounting	Standard TAD / NMO type	Standard TAD / NMO type
Finish	Brite	Black / White

MOBILE ANTENNAS / ACCESSORIES

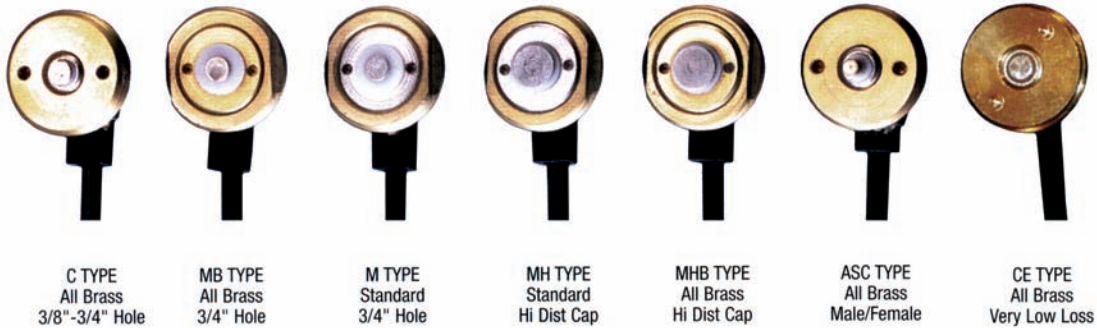
				
MMM	MMNMO	BSMN	547-75	548-75
				
TMBM 547-75	Whip Adapter Black	Whip Adapter Chrome	MGAS 545-75	MGLAS 546-75
				
Battery Tap A1001A				

412-75	Stainless Steel Trunk Groove Mounting Bracket (3/8" hole)
412M-75	Stainless Steel Trunk Groove Mounting Bracket (3/4" hole)
435-75	Rubber Hole Plug / 3/8" Hole Diameter
451-75	Universal Base Mount
453-75	Straight Whip (24" Length) + 5/16 - 24 Thread Adapter
455-75	Unity Gain Ae. / Whip and Base (451-75 + 453-75)
456-75	Cable Kit / 15ft of RG-58U + PL-259 + UG-175U
545-75	Magnet Mount Kit, Motorola base, 12 ft. RG58A/U, PL-259
546-75	Magnet Mount Kit, 5/16" stud mount, 12 ft. RG58A/U, PL-259
547-75	Trunk Mount Kit, Motorola base, 12 ft. RG58A/U, PL-259
548-75	Trunk Mount Kit, 5/16" stud mount, 12 ft. RG58A/U, PL-259
551-75	C-Mount (3/8"-3/4") c/w 17 ft. RG58A/U, PL-259
634-75	Rubber Hole Plug for 7/8" hole diameter
MMNMO	Mirror Mount Kit, Motorola base, 12 ft. RG-58A/U, PL-259
BSMN	Mirror Mount, Motorola base, UHF Connector
WAB	Whip Adapter, Black
WAC	Whip Adapter, Chrome
A1001A	Battery Tap (5 Individually packed)

THICK BODY MOUNTS

UTBM		Mount Terminates as Mini-UHF.
UTBM-UHF		Mount Terminates as UHF.
UTBM-NM		Mount Terminates as N Female.
UTCR		Celling Mounts, Terminates as Mini-UHF.
BSMO		Mobile-to-base Adapter only, includes hose.
BSMO-150		VHF Mobile-to-base adapter w/artificial ground plane, N Female connector.
BSMO-450		UHF mobile-to-base adapter w/artificial ground plane, N Female connector (antenna not included).
BSMO-800		800/900 mobile-to-base adapter w/artificial ground plane, N Female connector.

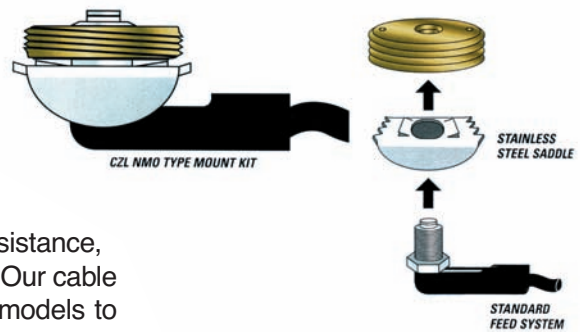
MOBILE MOUNTS



CABLE KITS

Our brass mounts and cable kits are the best in the industry. They were designed to match our mobile antenna line ensuring that our customers receive the best performance from the antennas and cable kits as a whole.

Our cable kits generate a perfectly matched 50 Ohms resistance, designed to match our each and every antenna designs. Our cable kits are one of the factors that allows for our wideband models to out perform the competition.



551-75	C	All Brass	3/4-3/8" Mount Only
551A-75	M	Standard	3/4" Mount Only
551B-75	MB	All Brass	3/4" Mount Only
551C-75	MH	Standard	3/4" Mount Only (Large contact)
551D-75	MHB	All Brass	3/4" Mount Only (Large contact)
551E-75	ASC	All Brass	3/4-3/8" k166 Type Mount

CONNECTORS

Comprod Communications carries and stocks a complete line of connectors. Please call our Technical Support Department for more information.



MOBILE ANTENNAS / ACCESSORIES

RG-58A/U	RG-58/U	MOUNTS WITH 17' OF RG-58A/U STANDARD CENTER OR RG-58/U SOLID CENTER CABLE
551-75CA	551-75CU	C Mount No Connector
551A-75CA	551A-75CU	M Mount No Connector
551B-75CA	551B-75CU	MB Mount No Connector
551E-75CA	551E-75CU	ASC Mount No Connector
551-75CA-01	551-75CU-01	C Mount Crimp TNC
551A-75CA-01	551A-75CU-01	M Mount Crimp TNC
551B-75CA-01	551B-75CU-01	MB Mount Crimp TNC
551E-75CA-01	551E-75CU-01	ASC Mount Crimp TNC
551-75CA-02	551-75CU-02	C Mount Crimp BNC
551A-75CA-02	551A-75CU-02	M Mount Crimp BNC
551B-75CA-02	551B-75CU-02	MB Mount Crimp BNC
551E-75CA-02	551E-75CU-02	ASC Mount Crimp BNC
551-75CA-03	551-75CU-03	C Mount Teflon PL-259
551A-75CA-03	551A-75CU-03	M Mount Teflon PL-259
551B-75CA-03	551B-75CU-03	MB Mount Teflon PL-259
551E-75CA-03	551E-75CU-03	ASC Mount Teflon PL-259
551-75CA-04	551-75CU-04	C Mount Crimp Mini UHF
551A-75CA-04	551A-75CU-04	M Mount Crimp Mini UHF
551B-75CA-04	551B-75CU-04	MB Mount Crimp Mini UHF
551E-75CA-04	551E-75CU-04	ASC Mount Crimp Mini UHF
551-75CA-05	551-75CU-05	C Mount Solder N
551A-75CA-05	551A-75CU-05	M Mount Solder N
551B-75CA-05	551B-75CU-05	MB Mount Solder N
551E-75CA-05	551E-75CU-05	ASC Mount Solder N
551-75CA-06	551-75CU-06	C Mount Crimp PL-259
551A-75CA-06	551A-75CU-06	M Mount Crimp PL-259
551B-75CA-06	551B-75CU-06	MB Mount Crimp PL-259
551E-75CA-06	551E-75CU-06	ASC Mount Crimp PL-259
551-75CA-07	551-75CU-07	C Mount Crimp N
551A-75CA-07	551A-75CU-07	M Mount Crimp N
551B-75CA-07	551B-75CU-07	MB Mount Crimp N
551E-75CA-07	551E-75CU-07	ASC Mount Crimp N

MAGNET MOUNTS WITH 12FT OF RG-58A/U CABLE

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
545-75-06	Magnet Mount with Crimp UHF
545-75-05	Magnet Mount with Type N
545-75-07	Magnet Mount with Crimp N
546-75-01	Magnet Mount with TNC
546-75-02	Magnet Mount with BNC
546-75-03	Magnet Mount with PL-259
546-75-04	Magnet Mount with Mini UHF
546-75-06	Magnet Mount with Crimp UHF
546-75-05	Magnet Mount with Type N
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
547-75-06	Trunk Mount with Crimp UHF
547-75-05	Trunk Mount with Type N
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
548-75-06	Trunk Mount with Crimp UHF
548-75-05	Trunk Mount with Type N
548-75-07	Trunk Mount with Crimp N

MOUNTING BRACKETS

TMBC	Stainless Trunk L 3/8" Hole (Brite)
TMBM	Stainless Trunk L 3/4" Hole (Brite)
TMBCB	Stainless Trunk L 3/8" Hole (Black)
TMBMB	Stainless Trunk L 3/4" Hole (Black)
MMM	Mirror Mount Bracket
MMCB	Mirror Mount CB with 12 ft of coax., PL-259
MMCM	Mirror Bracket, C-Mount & 12 ft Coax.

UNIVERSAL THICK BODY MOUNT

UTBM	Mount Terminates as Mini-UHF, Maximum Thickness 5/8"
	Order Cable Kits Separately

MOBILE ANTENNAS / ACCESSORIES

Part #	Description
DBW	Dual Band Whip .100
DBWB	Dual Band Whip .100, Black
WPDB33	Dual Band Whip Assembly, 4dB
WPDB33B	Dual Band Whip Assembly, 4dB, Black
QWP	20" Stainless Whip .100
QWPB	20" Stainless Whip .100, Black
WPBL125	52" Stainless Taper Whip .125
WPBL100	52" Stainless Taper Whip .100
WPBL100B	52" Stainless Taper Whip .100, Black
EFW	Elevated Feed Whip Assembly
WP85A-X	3.5dB Whip Assembly 800 MHz
WP85B-X	3.5dB Whip Assembly 800 MHz, Black
WP855A-X	5dB Whip Assembly 800 MHz
WP855B-X	5dB Whip Assembly 800 MHz, Black
WP45A-X	3.5dB Whip Assembly 450 MHz
WP45B-X	3.5dB Whip Assembly 450 MHz, Black
WPBL45AX	5dB Base Load Whip 450 MHz
WPBL45BX	5dB Base Load Whip 450 MHz, Black

The Comprod line of VHF transit antennas is a low profile rugged alternative to quarter wave whips. When mounted on a horizontal surface, maximum radiation is omni directional and vertically polarized.

These antennas are an excellent choice for low clearance applications on trains, public transit vehicles, construction equipment, police vehicles, etc.

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

The model 358-75 is a high strength cast aluminum design. The antenna can be coated for additional protection against abusive environmental conditions. To ensure moisture proof installation the model 358-75 is supplied with an "O" ring.



357-75

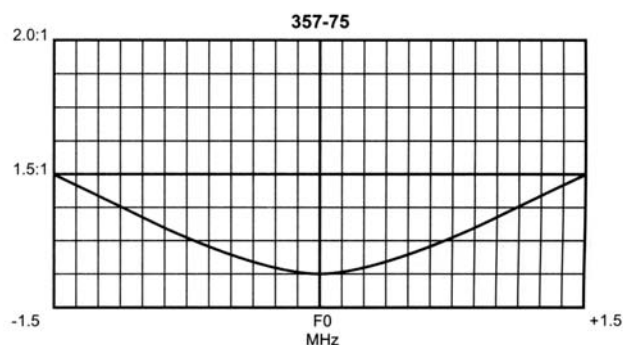


358-75

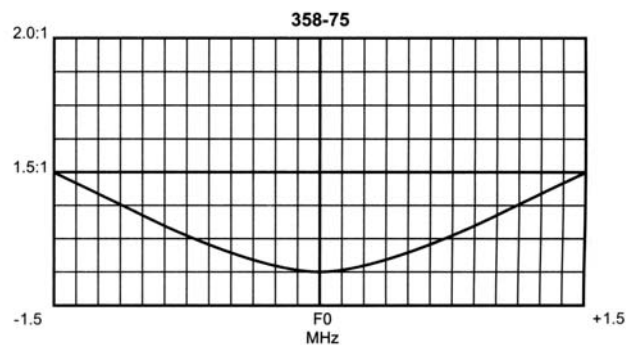
Electrical Specifications	357-75	358-75
Nominal Gain	Unity	Unity
Maximum Power, Watts	150	150
Frequency Range, MHz	148-174	138-174
Bandwidth VSWR: 1.5:1	3.0	3.0
Bandwidth VSWR: 2.0:1	4.5	4.5
Nominal Impedance, Ohms	50	50
Radiation Pattern	Omni	Omni
Polarization	Vertical	Vertical
Radome Material	High Impact ABS	---
Connector	UHF Female	UHF Female
Height, in (mm)	4 (102)	4 (102)
Length, in (mm)	21 (533)	23-1/2 (597)
Width, in (mm)	3 (76)	2-1/8 (54)
Weight, lbs (kg)	2.1 (0.945)	6 (2.7)
Minimum Ground Plane Size, in (mm)	36x48 (914x1219)	36x48 (914x1219)

Ordering information:

- Specify exact frequency.
- Specify connector type, UHF or N Female



357-75



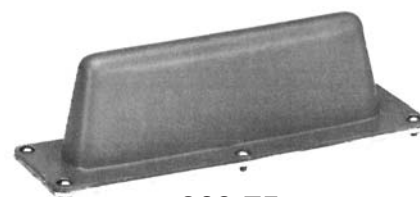
358-75

The Comprod line of UHF transit antennas are low profile rugged alternative to quarter wave whips. When mounted on a horizontal surface, maximum radiation is omnidirectional and vertically polarized.

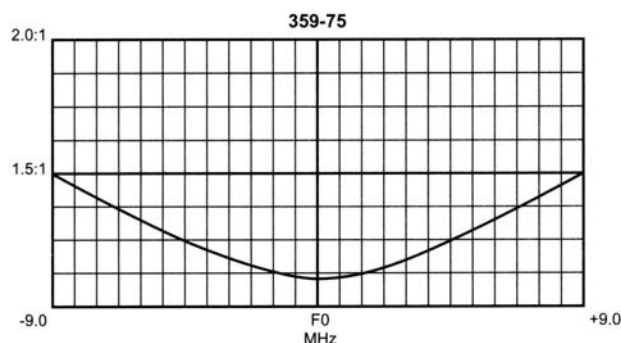
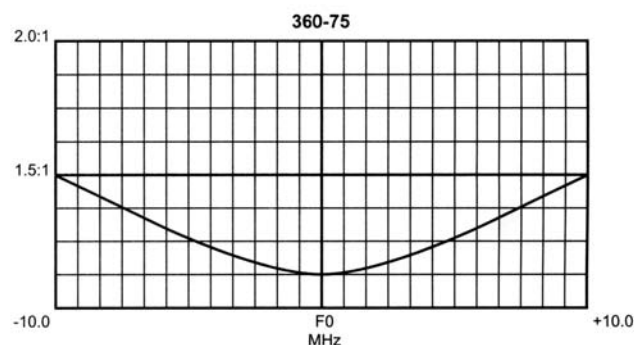
These antennas are an excellent choice for low clearance applications on trains, public transit vehicles, construction equipment, police vehicles, etc.

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

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

**359-75****360-75**

Specifications	359-75	360-75
Nominal Gain	Unity	
Maximum Power, Watts	125	125
Frequency Range, MHz	406-512	
Bandwidth VSWR : 1.5:1, MHz	18	20
Bandwidth VSWR : 2.0:1, MHz	27	40
Nominal Impedance, Ohms	50	
Radiation Pattern	Omnidirectional	
Polarization	Vertical	
Radome Material	---	High Impact ABS
Connector	UHF Female / BNC	UHF Female / BNC
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)	20x16 (508x406)	20x16 (508x406)

**359-75****360-75**

The Comprod line of radome transit antennas for operation in the 806-960MHz 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 on trains, mass transit vehicles, construction equipment, police and emergency vehicles, etc.

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

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

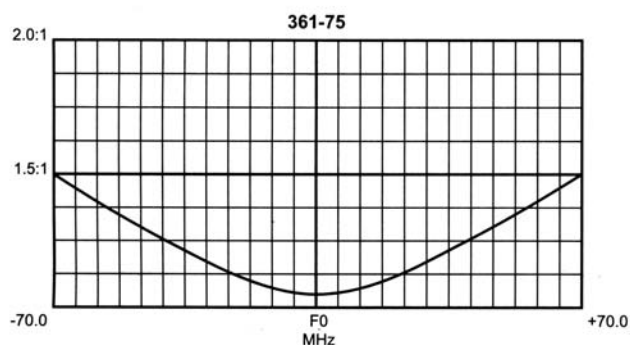


361-75

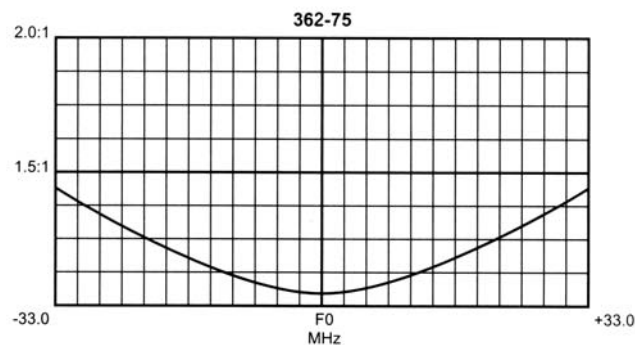


362-75

Specifications	361-75	362-75
Nominal Gain	Unity	
Maximum Power, Watts	50	100
Frequency Range, MHz	806-960	
Bandwidth VSWR : 1.5:1, MHz	140	66
Bandwidth VSWR : 2.0:1, MHz	-	100
Nominal Impedance, Ohms	50	
Radiation Pattern	Omnidirectional	
Polarization	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)	14x14 (355x355)	10x10 (254x254)



361-75



362-75



DISGUISED AM/FM ANTENNAS

Comprod supplies disguised antennas and broadcast couplers to both public and private safety organization at the national, state, regional and municipal levels.

Our success resides in our professional engineering, reliable quality and ability to meet customer's special needs.

Whatever the make or model of a vehicle, we supply antennas indistinguishable from the original AM-FM broadcast antenna; providing high performance two-way communications in the low VHF, high VHF, UHF, Dual, and 800-900MHz mobile bands, while maintaining the capability of still receiving AM/FM broadcasts.

We offer both the Original Equipment Manufacturers (OEM) antennas or an adjustable Universal mounting antennas that meet 80% of your installation needs.

Our antennas can be installed on standard-issue marked vehicles or completely covert / under cover vehicles, providing the ultimate in stealth technology.

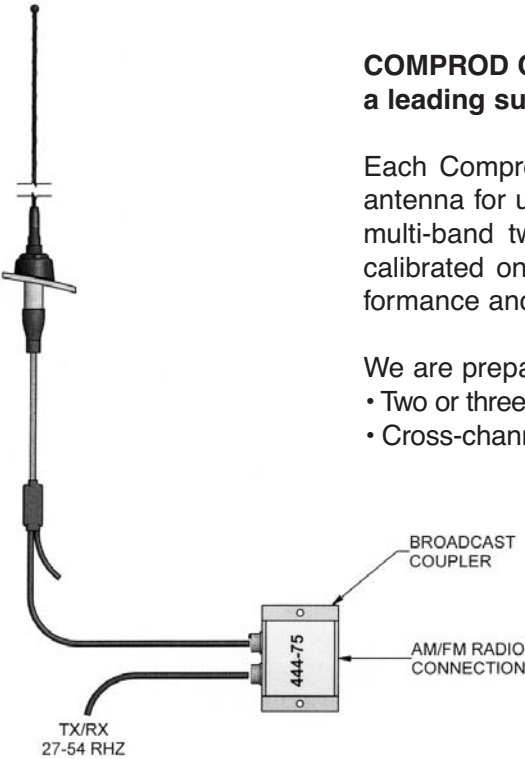


DISGUISED

COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas

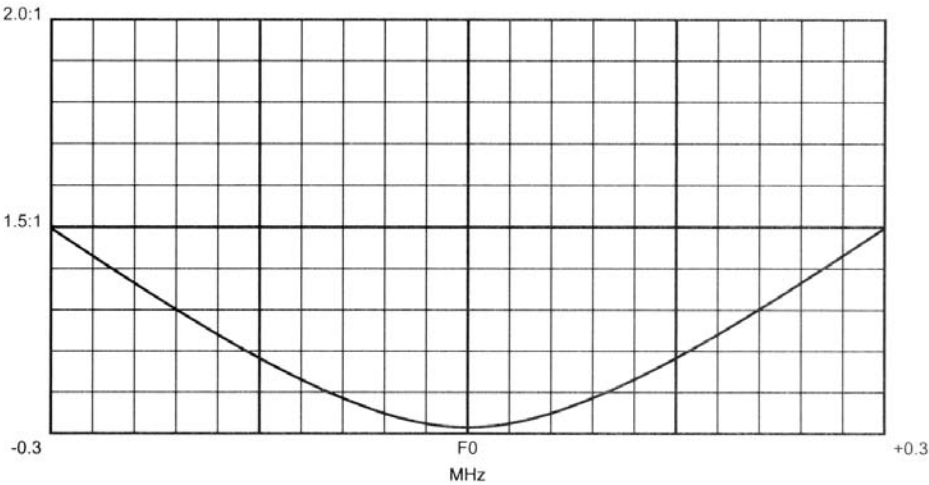
Each Comprod disguised antenna is made from an original OEM antenna for undetectable appearance. Modified to provide single or multi-band two-way communication, every antenna is individually calibrated on a unique "fender bench" to ensure the ultimate performance and security for high-risk applications.

- We are prepared to meet our customers' special requirements:
- Two or three separate frequency segments in a given mobile band;
 - Cross-channel operation in two mobile bands with one antenna.

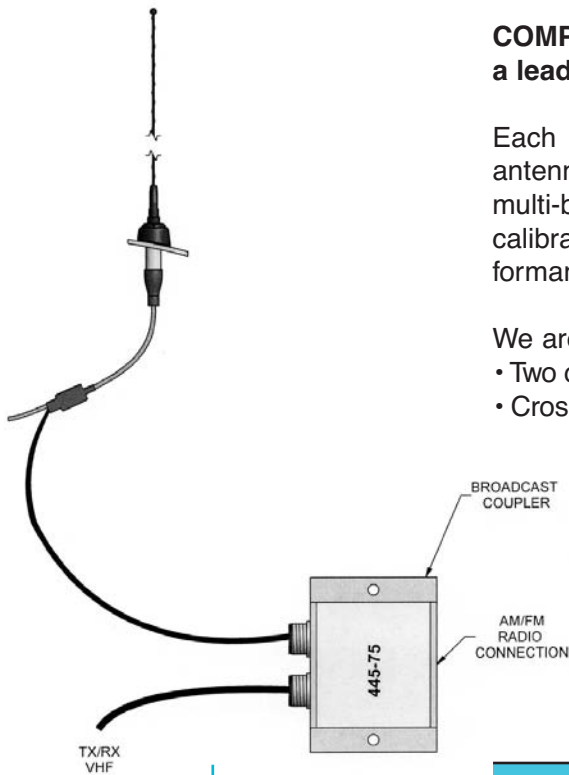


Technical Specifications	
Bandwidth (1.5 to 1 VSWR), KHz	600
Max. Power, Watts	150
Gain	Unity
Radiator	Solid Stainless Steel
Length, in	31
Feed line	17 ft RG58/u
Broadcast coupler (optional)	Model 444-75

VSWR vs Frequency



DISGUISED



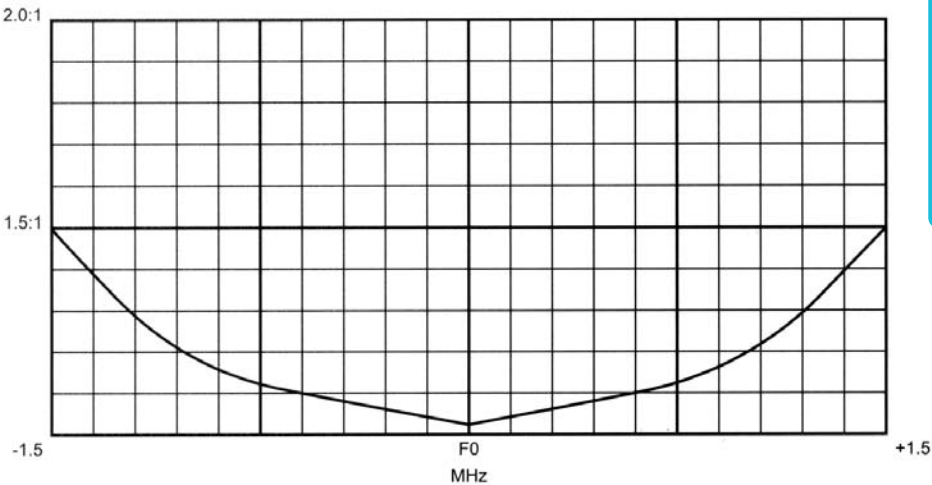
**COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas**

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- We are prepared to meet our customers' special requirements:
- Two or three separate frequency segments in a given mobile band;
 - Cross-channel operation in two mobile bands with one antenna.

Technical Specifications	
Bandwidth (1.5 to 1 VSWR), MHz	3
Max. Power, Watts	150
Gain	Unity
Radiator	Solid Stainless Steel
Length, in	31
Feed line	17 ft RG58/u
Broadcast coupler (optional)	Model 445-75

VSWR vs Frequency

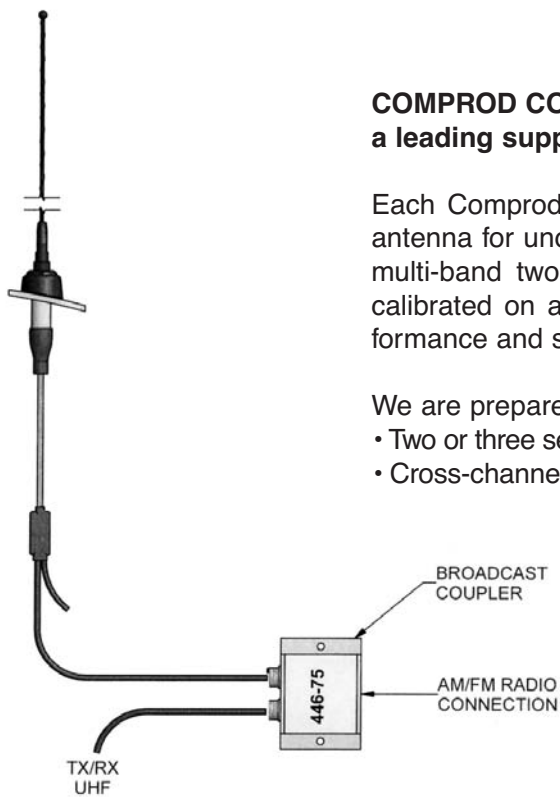


DISGUISED

COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas

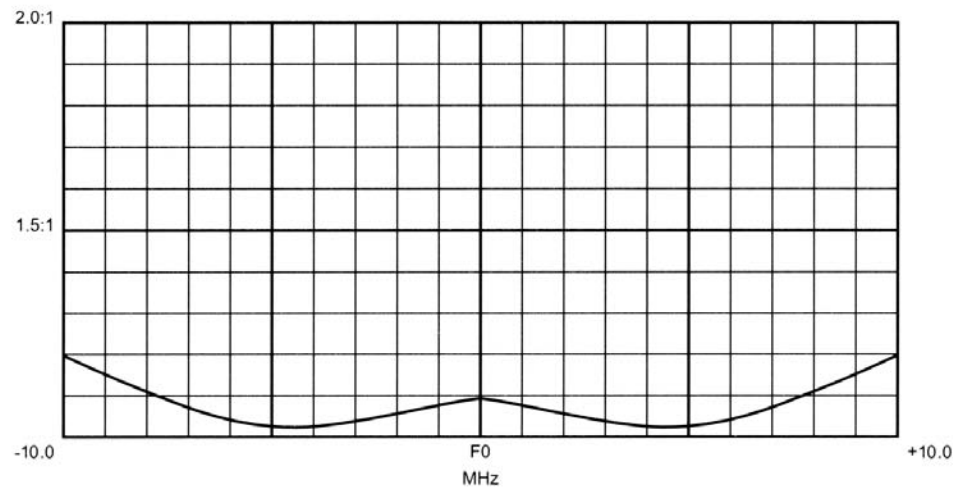
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- We are prepared to meet our customers' special requirements:
- Two or three separate frequency segments in a given mobile band.
 - Cross-channel operation in two mobile bands with one antenna.



Technical Specifications	
Bandwidth (1.5 to 1 VSWR), MHz	10-20
Max. Power, Watts	150
Gain	Unity
Radiator	Solid Stainless Steel
Length, in	29 to 35
Feed line	17 ft RG-8x
Broadcast coupler (optional)	Model 446-75

VSWR vs Frequency

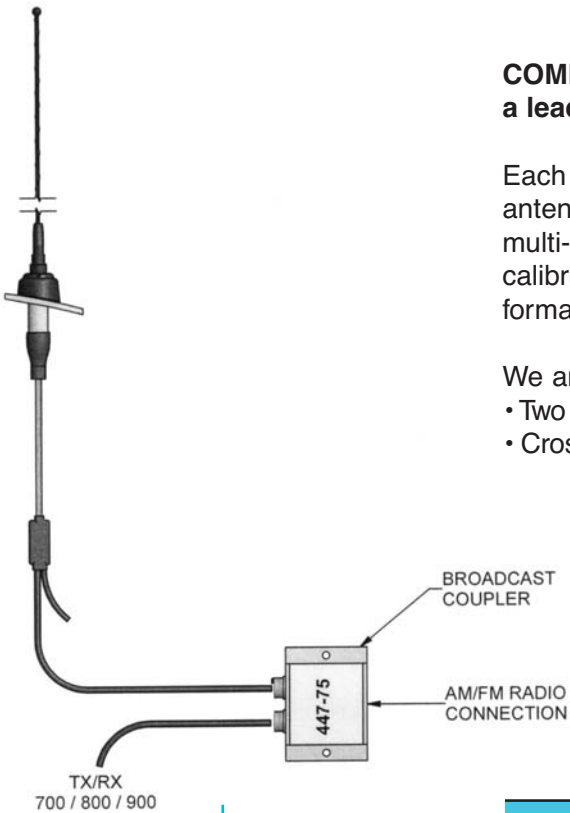


COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas

Each Comprod disguised antenna is made from an original OEM antenna for undetectable appearance. Modified to provide single or multi-band two-way communication, every antenna is individually calibrated on a unique "fender bench" to ensure the ultimate performance and security for high risk applications.

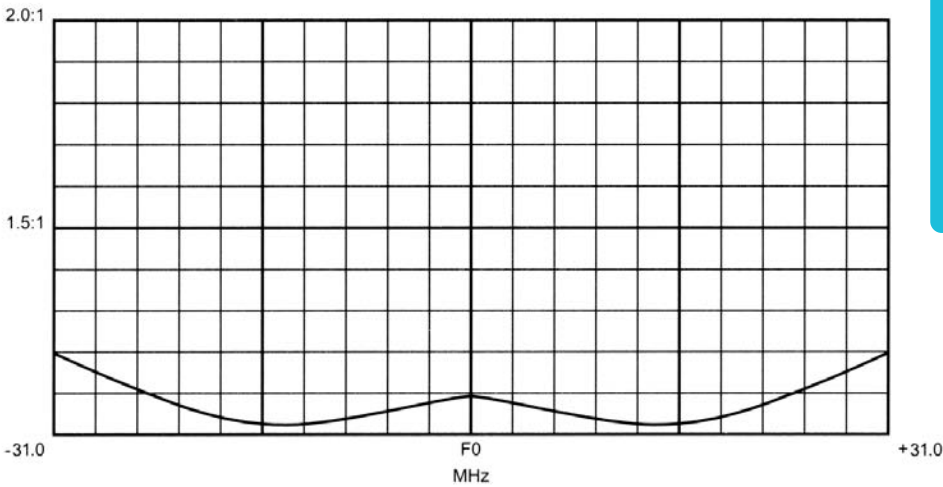
We are prepared to meet our customers' special requirements:

- Two or three separate frequency segments in a given mobile band;
- Cross-channel operation in two mobile bands with one antenna.



Technical Specifications	
Bandwidth (1.5 to 1 VSWR), MHz	63
Max. Power, Watts	75
Gain	Unity
Radiator	Solid Stainless Steel
Length, in	31
Feed line	5 ft LMR-240
Broadcast coupler (optional)	Model 447-75

VSWR vs Frequency



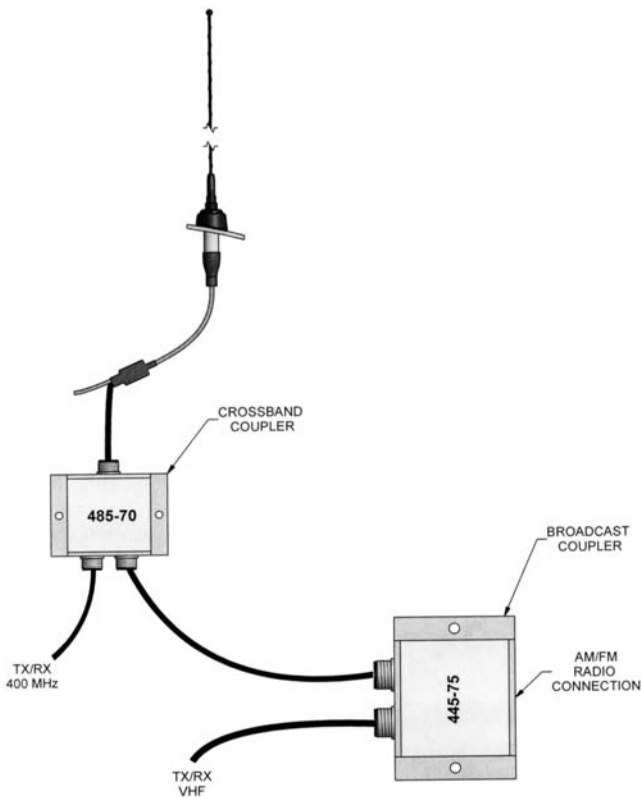
DISGUISED

DUAL BAND ANTENNAS

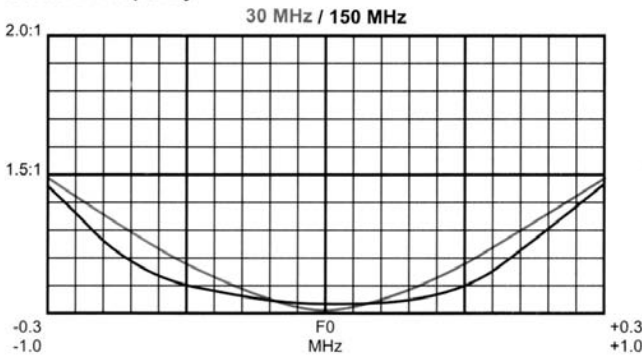
COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas

Technical Specifications	
Appearance	OEM Antenna
Mounting	Front/Rear Fender
Finish	Black / Chrome
Height, in	29 to 35
Frequency Range, MHz	30-50 / 150-174 150-174 / 406-512 150-174 / 806-960
VSWR	< 1.5 :1
Bandwidth, MHz	30-50 / 0.7 150-174 / 2 406-512 / 10 806-960 / 63
Power	30-512 / 150W 806-960 / 75W
Gain	Unity
Pattern	Omnidirectional
Connector	UHF, Mini-UHF, BNC, TNC
Cable	VHF / 17' RG-58/U UHF / 17' RG-8X 800-960 / 5' LMR-240

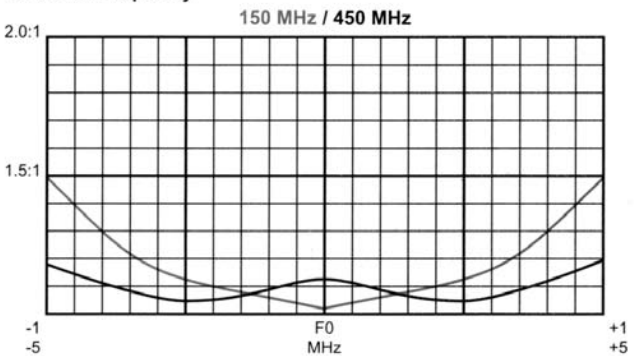
Specify Year, Make and Model of vehicle and both operating frequencies.



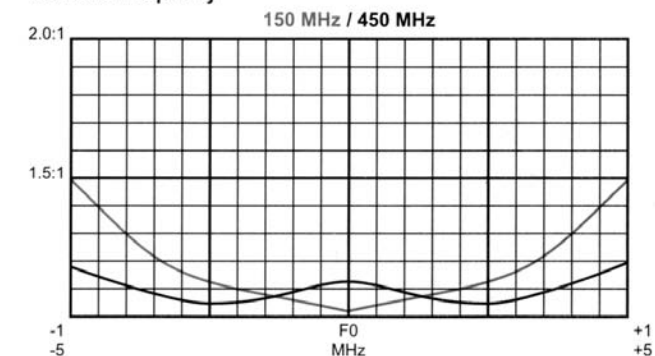
VSWR vs Frequency



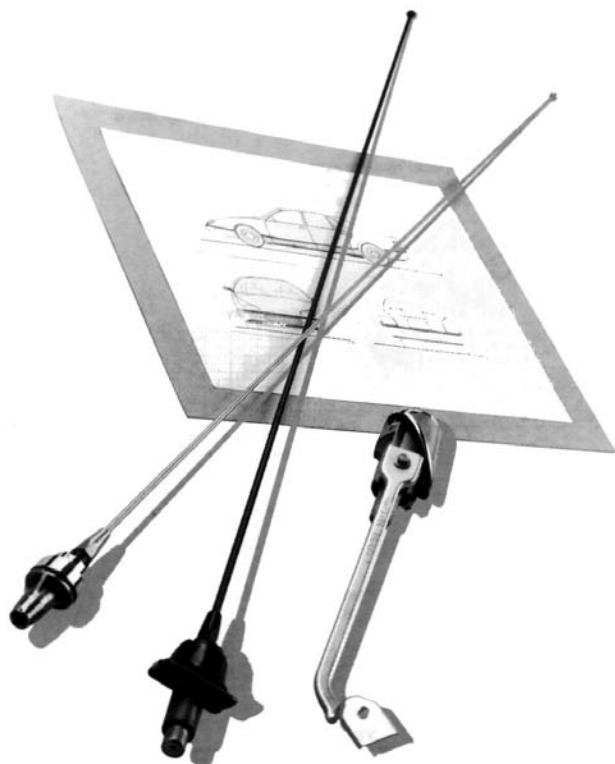
VSWR vs Frequency



VSWR vs Frequency



DISGUISED



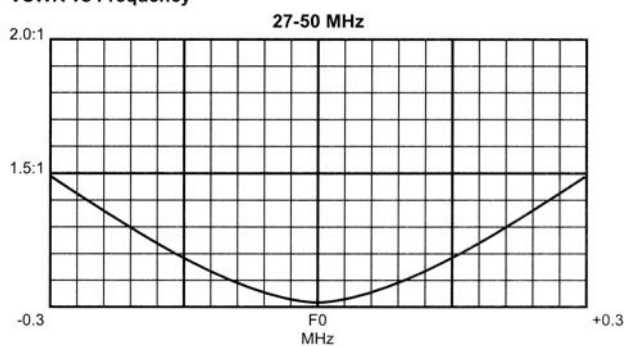
COMPROD COMMUNICATIONS,
a leading supplier of disguised antennas

Technical Specifications

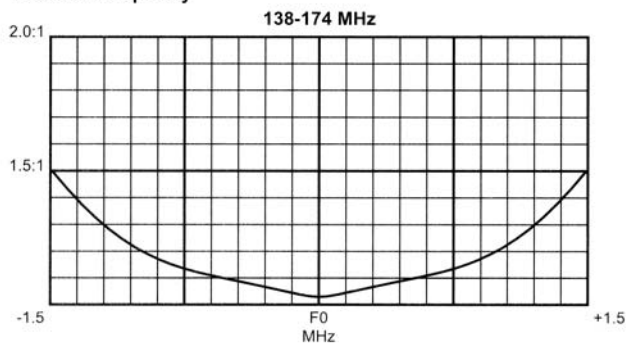
Appearance	Look-Alike OEM Antenna
Mounting	Front/Rear Fender
Finish	Black / Chrome
Height, in	29 to 35
Frequency Range, MHz	30-50 / 150-174 406-512 / 806-960
VSWR	< 1.5 :1
Bandwidth, MHz	30-50 / 0.6 150-174 / 3.0 406-512 / 10 806-960 / 63
Power	30-512 / 150W 806-960 / 75W
Gain	Unity
Pattern	Omni
Connector	UHF, Mini-UHF, BNC, TNC
Cable	VHF / 17' RG-58/U UHF / 17' RG-8X 800-960 / 5' LMR-240

Specify Year, Make and Model of vehicle and both operating frequencies.

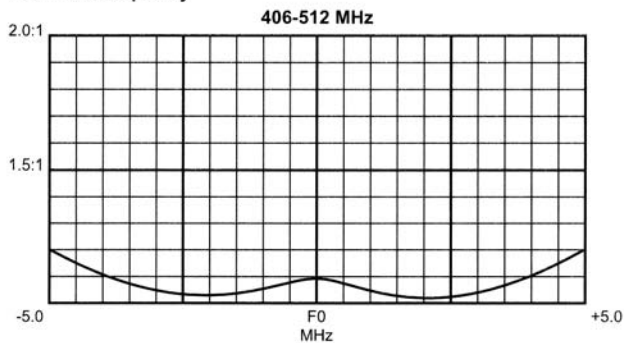
VSWR vs Frequency



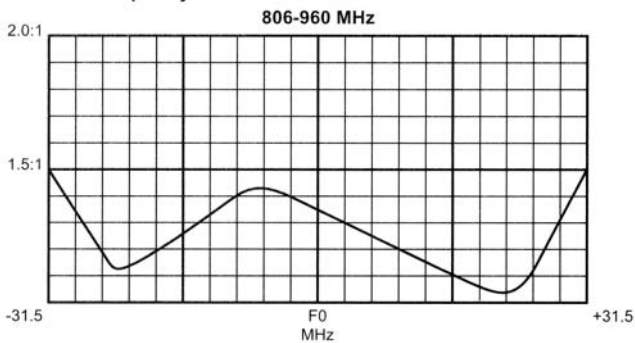
VSWR vs Frequency



VSWR vs Frequency



VSWR vs Frequency



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For every model of Comprod disguised antenna, we can supply:

Broadcast Couplers allowing for AM-FM broadcast receiver operation along with normal two-way mobile radio operation

Crossband Couplers allowing for mobile radios in two different bands to operate with a single disguised antenna

Antenna Tuners providing impedance matching and tuning of antenna to new frequencies

Broadcast Coupler Specifications

Model Number	Frequency Range	Insertion Loss		Max Power	Minimum Isolation
		Mobile	AM-FM / RX		
444-75	27-54MHz	0.15dB	1.5dB	150 Watts	35dB
445-75	138-174MHz	0.15dB	1.5dB	150 Watts	35dB
446-75	406-512MHz	0.15dB	1.5dB	150 Watts	35dB
447-75	806-960MHz	0.20dB	0.5dB	50 Watts	40dB

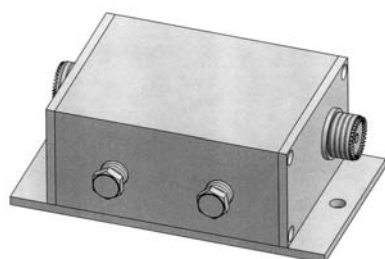
Antenna Tuner Specifications

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

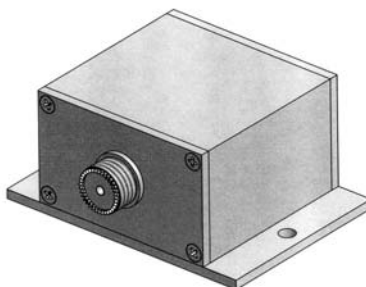
Crossband Coupler Specifications

Model Number	Frequency Range		Insertion Loss	Minimum Isolation
	Low Pass	High Pass		
485-75	138-174MHz	406-512MHz	0.3dB	50dB
486-75	30-50MHz	138-174MHz	0.3dB	35dB
487-75	138-174MHz	806-960MHz	0.3dB	35dB

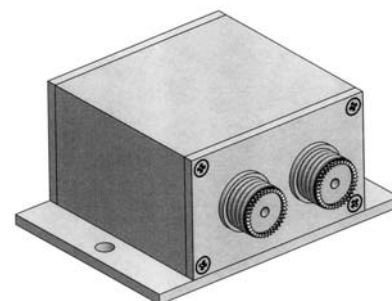
DISGUISED



461-75



485-75



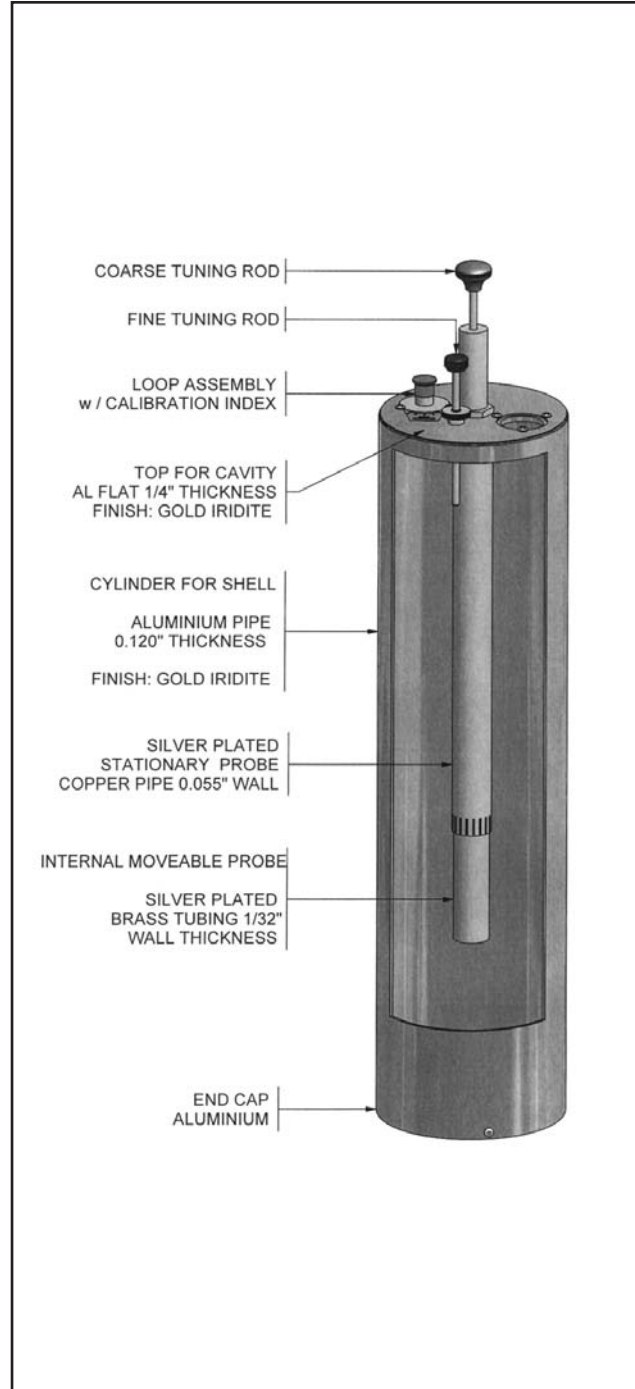
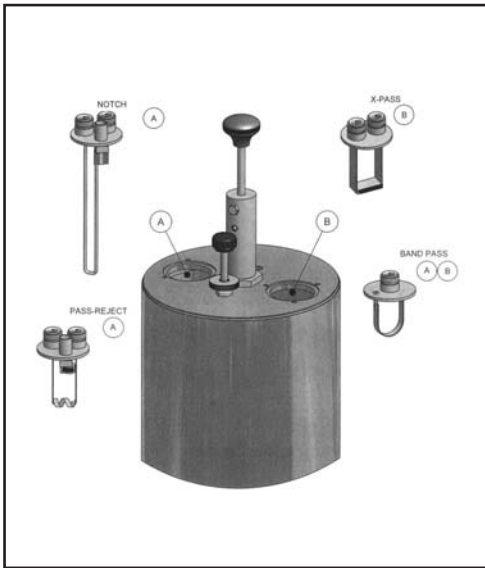
444-75



NOTES:

Lined area for notes with horizontal blue lines.

DISGUISED



CAVITY FILTER DESIGN

Comprod Communications has one of the most rugged, high quality cavity filter constructions in the industry with our field proven, temperature-compensated cavities. The flexibility of four versions of filters, BANDPASS, NOTCH, PASS-REJECT, and X-PASS, available in 2", 4", 6.625", & 10" cavities, allow for any system to be designed for maximum performance and efficiency. All of the following filters can be achieved by only swapping the loops, while maintaining the same cavity, only using 6.625" and 10" cavities.

1. BANDPASS CAVITY FILTER – Passes one narrow band of frequencies and attenuates all others with increasing attenuation above and below the pass frequency. The adjustable selectivity characteristics (rotatable loops) to allow a trade-off between insertion loss (0.5-3.0dB) and selectivity. This filter is ideal when the interfering frequencies are not known to any degree of accuracy or when very broadband filtering is needed.

2. NOTCH – Passes a relatively wide band of frequencies, while rejecting a very narrow band of frequencies. Notch depth is variable from 15-25dB. Both pass and notch frequencies must be known. The wide passband can be an advantage when filtering multiple channel transmitters and receivers. This filter is ideal for very close separations (70-200KHz) in VHF and (200-400KHz) in UHF.

3. PASS-REJECT – Passes and rejects a relatively narrow band of frequencies. This filter has the greatest notch depth when compared to other types. Notch depth is adjustable, but is referred to a passband insertion loss (0.3dB or 0.6dB typical). Best filter type for moderately close to wide separations (200KHz and greater in VHF and 400KHz and greater in UHF).

4. X-PASS – A special type of filter for expandable multicoupler/combiner applications. Characteristics are identical to a bandpass filter, but has a third port for coupling to other channels. This filter is ideal for close frequency spacing with extremely low losses, acts as a hybrid Combiner/Multicoupler, yet is extremely flexible and expandable; 1-21 and over Channel capabilities.

All of Comprod Communications 6.625" and 10" filters have two hand movable tuning rods, a coarse and a fine, for a 35% faster tuning capability. Using adjustable silver-plated coupling loops and calibration index label, it easily facilitates setting cavity insertion loss as required for each application.

The combination of 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 inter-modulation performance at high system power levels. Gold-plated cable connectors 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 the high quality of products that our clients have become accustomed to.

For more information on Comprod Communications' X-Pass, Combiners, Multicouplers, Duplexers, Pass Reject, BandPass, or Notch filters, please do not hesitate to contact our Technical Support team at **1.800.603.1454** or **1.450.641.1454**.

FILTER NOMENCLATURE

PP – FF – XX – YY

PP – Product Category / Product Family			
11	Mount Kits	54	X-Pass Conversion Loops
13	Cable Kits/Accessories	55	Variable attenuator 3-15dB
19	X-Racks	56	2nd Harmonic Filter
57	Combine Filter		
21	Low Power Single Junction Isolator	58	Pre-Amp
22	Low Power Dual Junction Isolator	59	Pre-Selector
41	High Power Single Junction Isolator		
42	High Power Dual Junction Isolator	60	Multicoupler (XMF Version – Reject/Pass)
45	RF Loads	61	Band Pass Filter
46	Signal Sampler	62	Pass-Reject Filter
47	Power Divider	63	Notch Filter
48	Hybrid Decouplers VHF/UHF/800/900MHz	64	Band Pass Duplexer Filter
49	Hybrid Coupler (Single Band)	65	Notch Duplexer Filter
		66	Pass-Reject Filter
51	Band pass Conversion Loops	67	Notch/Pass Reject BP Duplexer Filter
52	Pass-Reject Conversion Loops	68	X-Pass Filter
53	Notch Conversion Loops	69	Paging Filter

FF – Frequency Band / Frequency Range

XX – Cavity Size/# of Channels or Load Size or Termination

YY – Mounting Style

X Product Series

XTC – Xpandable Transmit Combiner System

XTR – Xpandable Transmit Receiver System

XRM – Xpandable Receiver Multicoupler

XBC – X-Band Coupler (Cross Band Couplers)

HTC – Hybrid Transmit Combiner



CP61-XX-7X Series

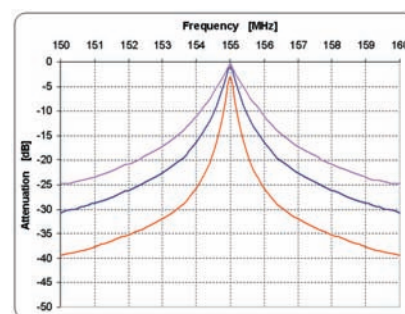
Comprod Band Pass filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or more units. Selectivity can be determined by the insertion loss of the cavity or by adding cavity units as needed. Each cavity is temperature compensated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

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable Loops**
 - Each cavity has a calibration index for easy field tuning



Electrical Specifications	61-03-71	61-06-71	61-11-71	61-13-71	61-40-71	61-74-71
Frequency Range, MHz	30-50	66-88	118-136	136-174	406-512	746-960
Frequency Spacing Min.	**** Please Refer To Curves ****					
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Continuous Power Input Dependant on Insertion Loss, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
Insertion Loss	**** Please Refer To Curves ****					
Reject Attenuation	**** Please Refer To Curves ****					
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Maximum length, in	132	77	31.5	26	11.5	13
Weight, lbs	n/a	n/a	18	15	10	10

Order Information	Single Cavity	Dual Cavity	Triple Cavity
4" Cavity	61-XX-41	61-XX-42	61-XX-43
6.625" Cavity	61-XX-71	61-XX-72	61-XX-73
10" Cavity	61-XX-01	61-XX-02	61-XX-03

**61-13-71**

CP63-XX-7X Series

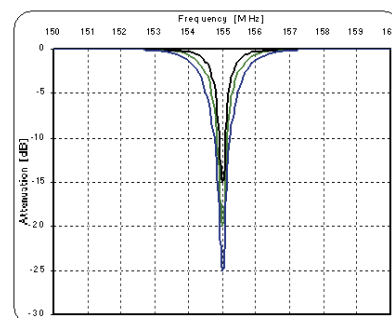
Comprod Notch filters are designed to reject one narrow band of frequencies, while passing all others in the operating band. They provide more isolation by eliminating close adjacent frequencies. The notch cavities can be cascaded or added to one another in order to sharpen the attenuation of the rejection 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 plated tuning rods. Every cavity is equipped with a coarse and fine tuning rod for quick and easy field or lab re-tuning applications.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference



Electrical Specifications	63-03-71	63-06-71	63-11-71	63-13-71	63-40-71	63-74-71
Frequency Range, MHz	30-50	66-88	108-136	136-174	406-512	746-960
Frequency Spacing Min.	**** Please Refer To Curves ****					
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Continuous Power Input Dependant on Insertion Loss, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
Insertion Loss	**** Please Refer To Curves ****					
Reject Attenuation	**** Please Refer To Curves ****					
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Maximum length, in	132	77	31.5	26	11.5	13
Weight, lbs	n/a	n/a	18	15	10	10

Order Information	Single Cavity	Dual Cavity	Triple Cavity
4" Cavity	63-XX-41	63-XX-42	63-XX-43
6.625" Cavity	63-XX-71	63-XX-72	63-XX-73
10" Cavity	63-XX-01	63-XX-02	63-XX-03

**63-13-71**

CP62-XX-7X Series

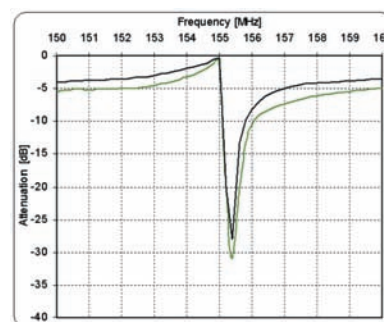
Comprod Pass Reject filters are designed to pass one frequency and reject another. They provide more attenuation than our standard bandpass type cavities. These Cavities can reject frequencies on either the high or low side of the pass frequency. Each cavity is temperature compensated for operation between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

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference



Electrical Specifications	62-03-71	62-06-71	62-11-71	62-13-71	62-40-71	62-74-71
Frequency Range, MHz	30-50	66-88	118-136	136-174	406-512	746-960
Frequency Spacing Min.	**** Please Refer To Curves ****					
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Continuous Power Input, Watts	300	300	300	300	300	300
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
Insertion Loss	**** Please Refer To Curves ****					
Reject Attenuation	**** Please Refer To Curves ****					
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Maximum length, in	132	77	31.5	26	11.5	13
Weight, lbs	n/a	n/a	18	15	10	10

Order Information	Single Cavity	Dual Cavity	Triple Cavity
4" Cavity	62-XX-41	62-XX-42	62-XX-43
6.625" Cavity	62-XX-71	62-XX-72	62-XX-73
10" Cavity	62-XX-01	62-XX-02	62-XX-03

**62-13-71**

XMF MULTICOUPLERS

VHF, UHF, & 700/800/900MHz Xpandable BandPass Multicoupler Filters

The XMF (Xpandable Bandpass Multicoupler Filter) systems is one of the most unique transmit/receive multicouplers available. Each channel consists of one, two, or three bandpass filters in combination with an exclusive notch filter design, enabling system expansion without modification to existing system channels as long as applicable selectivity standards for minimum channel spacing are met.

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

Channels may be interconnected with any convenient length of cable. There are no length sensitive cables in the path between channel junction cavities. There is also no frequency order of interconnection required. The only requirement is that the minimum spacing for VHF is 0.8MHz and 2MHz at UHF frequencies be observed.

The XMF channels are supplied 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 spacing for rack or wall applications. Horizontally spaced mounting holes are standard 19" EIA rack spacing on wall and rack mounts.

All of Comprod Communications filters have two hand movable tuning rods, a coarse and a fine, for a 35% faster tuning capability. Using adjustable silver-plated coupling loops and calibration index label, it easily facilitates setting cavity insertion loss as required for each application.

The combination of 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 a 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. Gold-plated cable connectors 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 the high quality of products to which our clients have become accustomed to.

For more information on Comprod Communications X-Pass, Multicouplers, Duplexers, Pass-Reject, BandPass, or Notch filters, please do not hesitate to contact our Technical Support team at **1.800.603.1454** or **1.450.641.1454**.

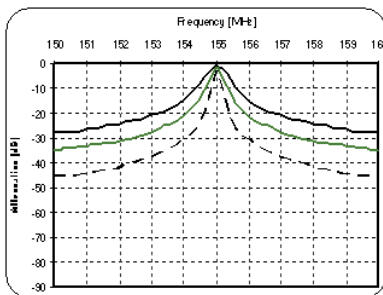
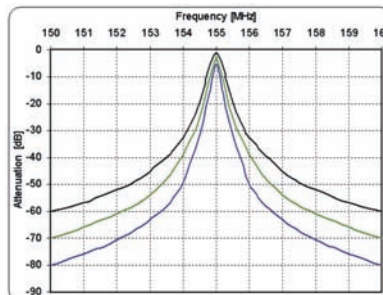
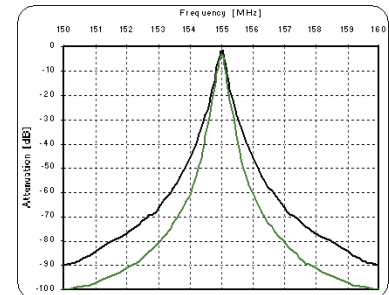
CP60-13-XP Series

Comprod Band Pass VHF Multicoupler filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or more 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 plated tuning rods. Every cavity is equipped with a coarse and fine tuning rod for quick and easy field or lab re-tuning applications.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable Loops**
 - Each cavity has a calibration index for easy field tuning



Electrical Specifications	60-13-71	60-13-72	60-13-73
Frequency Range, MHz	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 Dependant on Insertion Loss, Watts	90 - 400	90 - 400	90 - 400
Connectors	N Female	N Female	N Female
Insertion Loss, dB	0.7, 1.2, 3.2	1.2, 2.2, 3.2	1.7, 3.2
Channel Isolation	**** See Curves ****		
VSWR	1.5:1	1.5:1	1.5:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications			
Maximum length, in	34H x 19W x 7D	34H x 19W x 16.5D	34H x 19W x 16.5D
Weight, lbs (Kg)	30 (13.6)	36.3 (16.5)	44 (20)

**60-13-71****60-13-72****60-13-73**

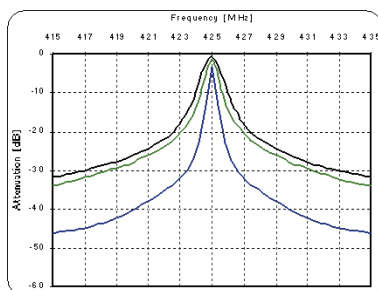
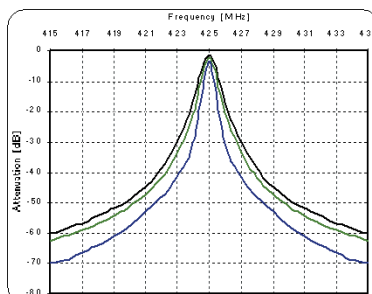
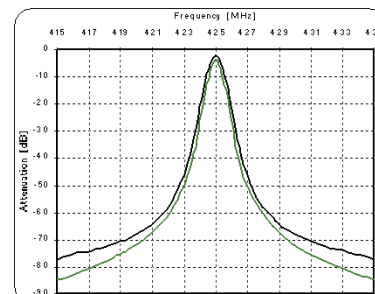
CP60-40-XP Series

Comprod Band Pass UHF Multicoupler filters are designed for minimizing interference from adjacent channels and outside systems. They are available in single, dual, triple or more 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 plated tuning rods. Every cavity is equipped with a coarse and fine tuning rod for quick and easy field or lab re-tuning applications.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable Loops**
 - Each cavity has a calibration index for easy field tuning



Electrical Specifications	60-40-71	60-40-72	60-40-73
Frequency Range, MHz	406-512	406-512	406-512
Frequency Spacing Min., MHz	0.8	0.8	0.8
Cavity Diameter, in	6.625	6.625	6.625
Continuous Power Input Dependant on Insertion Loss, Watts	80-300	80-300	80-300
Connectors	N Female	N Female	N Female
Insertion Loss, dB	0.7, 1.2, 3.2	1.2, 2.2	1.7, 3.2
Channel Isolation	**** See Curves ****		
VSWR	1.5:1	1.5:1	1.5:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications			
Maximum length, in	16H x 19W x 7D	16H x 19W x 16.5D	16H x 19W x 16.5D
Weight, lbs (kg)	18 (8.6)	26 (11.8)	32 (15.2)

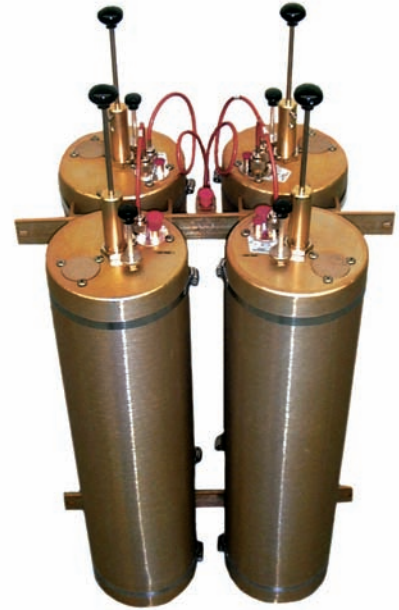
**60-40-71****60-40-72****60-40-73**

PSEUDO BAND PASS DUPLEXER

CP66-FF-74

Comprod Pseudo Band Pass Duplexer filters are designed for quick and easy installations. These filters are designed for combining two frequencies that need extra isolation or used as great pre-selectors. Available in either 4 or 6 cavity configurations if higher levels of isolation are needed. 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 plated tuning rods. Every cavity is equipped with a coarse and fine tuning rod for quick and easy field or lab re-tuning applications.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable loops**
 - Each cavity has a calibration index for easy field tuning



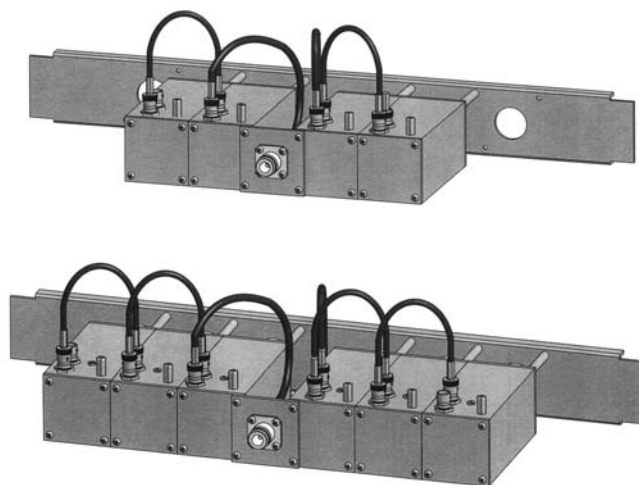
Electrical Specifications	66-13-74	66-40-74
Frequency Range, MHz	138-174	406-512
Frequency Spacing Min., MHz	0.5	1.5
Cavity Diameter, in	6.625	6.625
Continuous Power Input, Watts	400	350
Connectors	N Female	N Female
Insertion Loss, dB	1.5	1.5
Channel Isolation, @ Min. Separation dB	85	90
VSWR	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications		
Maximum length, in	34H x 19W x 16.5D	18.5H x 19W x 16.5D
Weight, lbs (kg)	44 (20)	32 (15.2)

2-INCH CAVITY DUPLEXERS

CP66-FF-2P Series 2" Cavity Duplexers

Comprod 2" base station duplexers are ideal for quick and easy installations. These filters are designed for combining two frequencies that need extra isolation or used as great pre-selectors. Available in either 4 or 6 cavity configurations if higher levels of isolation are needed. 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 plated tuning rods.

- **Temperature Compensation**
 - Assures 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	132-150	144-174	132-150	144-174
Frequency Spacing, Min., MHz	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 Input, Watts	100	100	100	100
Connectors (Equipment/Antenna)	BNC/N	BNC/N	BNC/N	BNC/N
Insertion Loss, dB	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	-40°C to +80°C		-40°C to +80°C	
Mechanical Specifications				
Maximum length, in	5.25H x 19W x 7.25D		5.25H x 19W x 7.25D	
Mounting	19" Rack Mount			

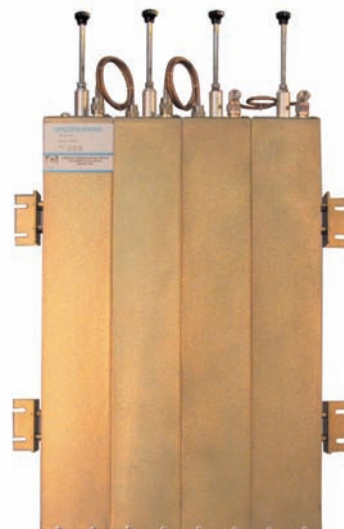
These duplexers are available in other frequencies and configurations. Please call our technical support for additional models.

4-INCH CAVITY DUPLEXERS

CP66-FF-44 Series (4) 4" Cavity Duplexers

These Comprod 4" base station duplexers are ideal for quick and easy installations. These filters are designed for combining two frequencies or used as great pre-selectors. If higher levels of isolation are needed, please take a look at our 6-cavity configurations. Selectivity can be determined by the field adjustable capacitors. Each cavity is temperature compensated for operation between -40° to +60°C. Each cavity has a gold alodine finish, silver plated loops, and plated tuning rods.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable loops**



Electrical Specifications	66-13-44	66-40-44	66-80-44
Frequency Range, MHz	138-174	406-512	746-960
Frequency Spacing Min.	500KHz	5MHz	9MHz
Cavity Diameter	(4) - 4" Square	(4) - 4" Square	(4) - 4" Square
Continuous Power Input	350 Watts	350 Watts	150 Watts
Connectors	N Female	N Female	N Female
Insertion Loss	1.5 dB	0.8 dB	0.8 dB
Channel Isolation	70 dB	75 dB	90 dB
VSWR	1.22:1	1.22:1	1.22:1
Temperature	-40° to +60°C	-40° to +60°C	-40° to +60°C
Mechanical Specifications			
Maximum Length, in	31H x 19W x 4D	4H x 19W x 16.5D	4H x 19W x 16.5D
Weight, lbs (kg)	30 (13.6)	18 (8.2)	16 (7.3)
Mounting	19" Rack Mount	19" Rack Mount	19" Rack Mount

Order Information	Frequency	Wall Mount	4 Cavities	6 Cavities	8 Cavities
66-13-44	138-174MHz	66-13-44WM	66-13-44	66-13-46	66-13-48
66-40-44	406-470MHz	66-40-44WM	66-40-44	66-40-46	66-40-48
66-74-44	746-806MHz	66-74-44WM	66-74-44	66-74-46	66-74-48
66-80-44	806-896MHz	66-80-44WM	66-80-44	66-80-46	66-80-48
66-90-44	896-960MHz	66-90-44WM	66-90-44	66-90-46	66-90-48

4-INCH CAVITY DUPLEXERS

CP66-FF-46 Series (6) 4" Cavity Duplexers

These Comprod (6) 4" base station duplexers are ideal for quick and easy installations. These filters are designed for combining two frequencies that need extra isolation or used as a great pre-selectors. If higher levels of isolation are needed, please take a look at our 8-cavity configurations. 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 plated tuning rods.



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

Electrical Specifications	66-13-46	66-40-46	66-80-46
Frequency Range, MHz	138-174	406-512	746-960
Frequency Spacing Min., MHz	0.5	5	3.6
Cavity Diameter	(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	1.5	1.2	1.2
Channel Isolation @ Min. Sep., dB	85	100	85
VSWR	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications			
Maximum length, in	31H x 19W x 8D	8H x 19W x 16.5D	8H x 19W x 16.5D
Weight, lbs (kg)	45 (20.25)	27 (12.15)	24 (10.8)
Mounting	19" Rack Mount	19" Rack Mount	19" Rack Mount

Order Information	Wall Mount	4 Cavities	6 Cavities	8 Cavities
66-13-46	66-13-46WM	66-13-44	66-13-46	66-13-48
66-40-46	66-40-46WM	66-40-44	66-40-46	66-40-48
66-80-46	66-80-46WM	66-80-44	66-80-46	66-80-48

4 Cavity Standard Version

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

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

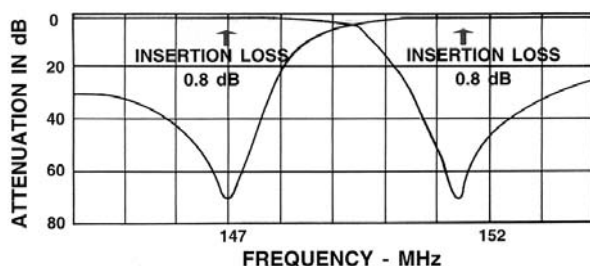
BNC connectors are standard. Variations on connectors and mountings are available on special order. For N female connectors add suffix N to model number (Ex. 534-90N)



Electrical Specifications	534-90	504-90	
Frequency Range, MHz	144-155/150-165/160-174	406-435/430-470	
Frequency Separation, MHz	4.5	5	10
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, Ohms	1.5:1	1.5 : 1	
Impedance, Ohms	50	50	
Connector Type, Female	BNC	BNC	
Temperature Range	-40°C to +60°C	-40°C to +60°C	
Mechanical Specifications			
Height, in (mm)	1-1/4 (31.8)	1-1/4 (31.8)	
Width, in (mm)	4-1/8 (105)	4-1/8 (105)	
Depth, in (mm)	7-5/8 (194)	8-3/4 (222)	
Weight, lbs (kg)	1.5 (0.7)	2 (0.9)	

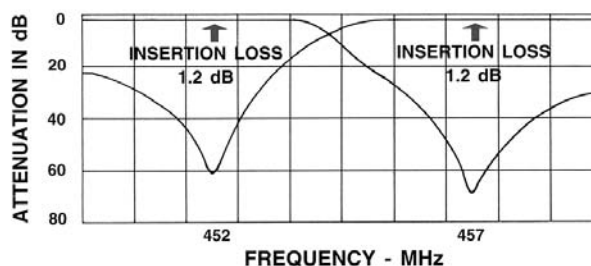
534-90

Typical Response Curve / 4.5 MHz Spacing



504-90

Typical Response Curve / 5.0 MHz Spacing



6 Cavity Standard Version

The Comprod 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 intercabling assures excellent mechanical and electrical stability.

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

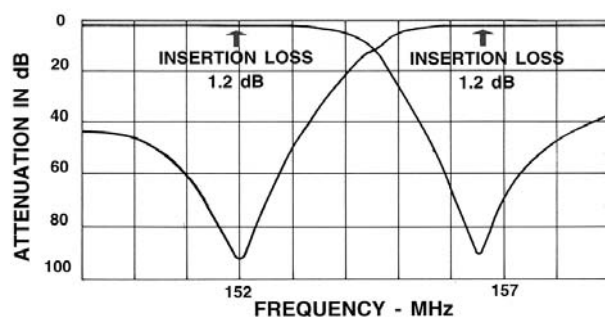
BNC connectors are standard. Variations on connectors and mountings are available on special order. For N female connectors add suffix N to model number (Ex. 536-90N)



Electrical Specifications	536-90	506-90	
Frequency Range, MHz	144-155/150-165/160-174	406-435/430-470	
Frequency Separation, MHz	4.5	5	10
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, Ohms	1.5:1	1.5:1	
Impedance, Ohms	50	50	
Connector Type, Female	BNC	BNC	
Temperature Range	-40°C to +60°C	-40°C to +60°C	
Mechanical Specifications			
Height, in (mm)	1-1/4 (31.8)	1-1/4 (31.8)	
Width, in (mm)	6-3/16 (157)	6-3/16 (157)	
Depth, in (mm)	7-5/8 (222)	8-3/4 (222)	
Weight, lbs (kg)	2.0 (0.9)	3.5 (1.7)	

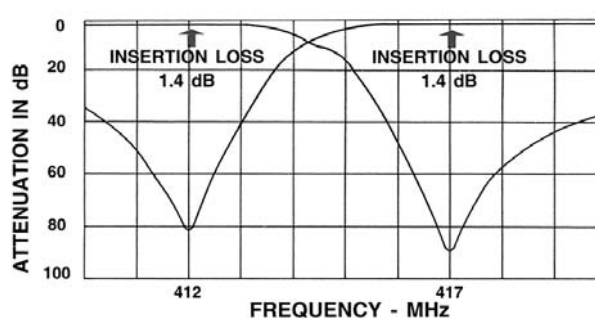
536-90

Typical Response Curve / 4.5 MHz Spacing



506-90

Typical Response Curve / 5.0 MHz Spacing



X-PASS **Expandable Multicoupler/Combiner Filters**

The Next Generation of Filtration

The X-Pass system is one of the most innovative filter designs available today. The X-Pass configuration has already been used by the CREST project at Mount Douglas (B.C.), Hydro Quebec, NB DOT, Motorola Systems, and multiple projects in Canada, the U.S.A and internationally. With the properties of a combiner, but the expandability of a multicoupler, our X-Pass filters is one of the most versatile and re-usable filtration systems on the market.

The X-Pass transmitter multicoupler/combiner has superior expandability over fixed star junction type configurations. The X-Pass system can be expanded one channel at a time or 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 many channels on top of the existing system, (daisy chain).

The X-Pass system is a broadband design allowing the system to completely span entire frequency ranges by using the properties of the X-Pass's combiner for close frequency spacing and the X-Pass's multicoupler properties for the normally spaced channels. The X-Pass can span the full 138-174MHz, 406-512MHz, 806-960MHz frequencies with ease. With a 6.625" cavity, Tx-Tx in VHF can be as close to 75KHz in frequency separation or 50KHz using 10" cavities.

The X-Pass system has the big advantage of being flexible. With the ability to combine Bandpass, Pass-Reject, or Notch 6.625" & 10" cavity filters within the X-Pass configuration, once difficult duplex operating requirements can be easily resolved with any 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 X-Pass combiner properties for close frequency spaced channels using 6.625" and 10" cavities. Your system can now be a hybrid, part combiner for close frequency spaced channels while encompassing the expandability of part standard multicouplers that can be integrated with standard Bandpass, Notch, and Pass-Reject filter combinations. All X-Pass systems are fully assembled, ready for Bolt, Plug, and then Play installations.

The X-Pass system has one more beneficial aspect, the optional X-Pass Rack. With this ingenious rack design, some systems can take up to 50% less space than normal systems in a 19-inch rack. Even our Stak Rack cannot compete with the efficiencies of the X-Pass Rack. By being able to mount all cavities horizontally, 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, that in most cases, is a premium, especially for future expansion projects.

For more information on Comprod Communications X-Pass, Multicouplers, Duplexers, Pass-Reject, BandPass, or Notch filters, please do not hesitate to contact our Technical Support team at **1.800.603.1454** or **1.450.641.1454**.

CP68-XX-7X Series

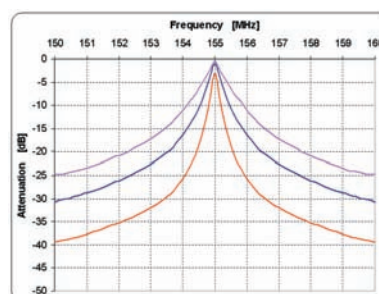
Comprod X-Pass filters are designed for flexible, close frequency systems. Each cavity contains both a Reject and Pass Band curve. These individual cavities are used to add channels to already existing systems. They are only available in single units, but can be combined with Band Pass, Notch, and Pass Reject cavities for added protection and isolation. Selectivity can be determined by the insertion loss of the cavity or by adding Band Pass cavity units after this Expansion channel 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 plated tuning rods. Every cavity is equipped with a coarse and fine tuning rod for quick and easy field or lab re-tuning applications.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- **Adjustable Loops**
 - Each cavity has a calibration index for easy field tuning



Electrical Specifications	68-03-71	68-06-71	68-11-71	68-13-71	68-40-71	68-74-71
Frequency Range, MHz	30-40	66-88	118-136	136-174	406-512	746-960
Frequency Spacing Min.	**** Please Refer To Curves ****					
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
Insertion Loss	**** Please Refer To Curves ****					
Reject Attenuation	**** Please Refer To Curves ****					
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Maximum length, in	132	77	31.5	26	11.5	13
Weight, lbs	n/a	n/a	18	15	10	10

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

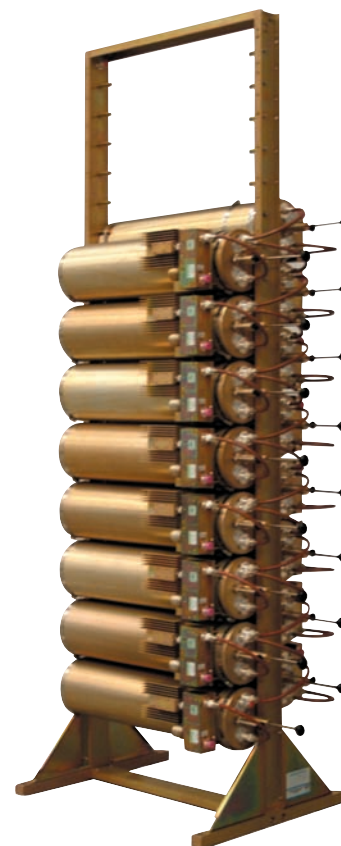


68-13-71

XTC – Xpandable Transmit Combiner Series – 7" Cavity

The XTC is the newest evolution of our X-Pass technology. Our Xpandable Transmit Combiners can combine 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 50KHz Tx-Tx spacing or 50KHz 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 a coarse and fine tuning rod for quick and easy field or lab re-tuning.

- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
- **Expandable 1 or more Channels at a time**
 - Re-Configurable Equipment
 - 66-88MHz, 22MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-06-72	XTC-06-74	XTC-06-76	XTC-06-78	XTC-07-10	XTC-07-12
Frequency Range, MHz	66-88	66-88	66-88	66-88	66-88	66-88
Bandwidth, MHz	22	22	22	22	22	22
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	50	50	50	50	50	50
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.7	5.5	6	6.3	6.8	7.3
Continuous Power Input, Watts	100	100	100	100	100	100
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

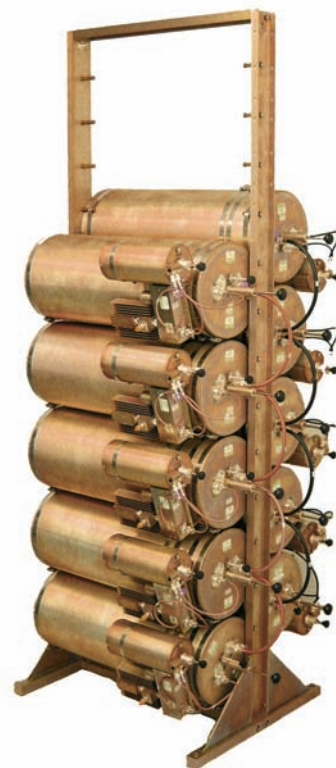
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Cavity	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-06-41	XTC-06-42	XTC-06-43	XTC-06-45	XTC-06-48
6.625" Cavity	XTC-06-71	XTC-06-72	XTC-06-73	XTC-06-75	XTC-06-78
10" Cavity	XTC-06-01	XTC-06-02	XTC-06-03	XTC-06-05	XTC-06-08

XTC – Xpandable Transmit Combiner Series – 10" Cavity

The XTC is the newest evolution of our X-Pass technology. Our Xpandable Transmit Combiners can combine 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 50KHz Tx-Tx spacing or 50KHz 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 a coarse and fine tuning rod for quick and easy field or lab re-tuning.

- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 66-88MHz, 22MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



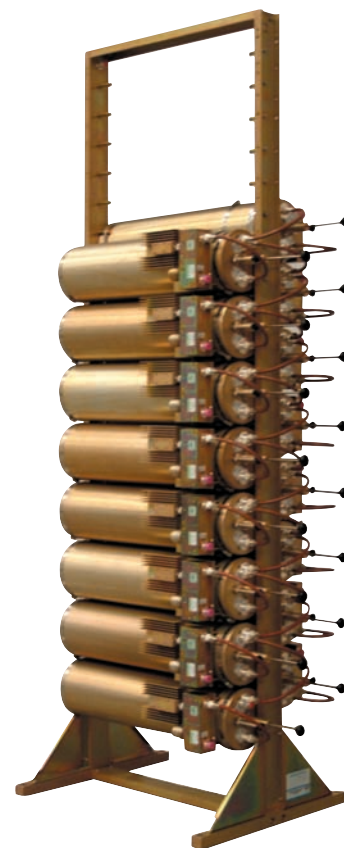
Electrical Specifications	XTC-06-02	XTC-06-04	XTC-06-06	XTC-06-08	XTC-06-10
Frequency Range, MHz	66-88	66-88	66-88	66-88	66-88
Bandwidth, MHz	22	22	22	22	22
Number of Channels	2	4	6	8	10
Cavity Diameter, in	10	10	10	10	10
Min. Channel Sep., KHz	50	50	50	50	50
Isolation Min. Tx-Tx, dB	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	3.8	4.9	5.2	5.4	5.6
Continuous Power Input, Watts	100	100	100	100	100
Connectors	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications					
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)				
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****				

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-06-41	XTC-06-42	XTC-06-43	XTC-06-45	XTC-06-48
6.625" Cavity	XTC-06-71	XTC-06-72	XTC-06-73	XTC-06-75	XTC-06-78
10" Cavity	XTC-06-01	XTC-06-02	XTC-06-03	XTC-06-05	XTC-06-08

XTC – Xpandable Transmit Combiner Series – 7" Cavity

The XTC is the newest evolution of our X-Pass technology. Our Xpandable Transmit Combiners can combine 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 75KHz Tx-Tx spacing or 50KHz 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 a coarse and fine tuning rod for quick and easy field or lab re-tuning.

- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 108-136MHz, 28MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes Decense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-11-72	XTC-11-74	XTC-11-76	XTC-11-78	XTC-11-7-10	XTC-11-7-12
Frequency Range, MHz	108-136	108-136	108-136	108-136	108-136	108-136
Bandwidth, MHz	28	28	28	28	28	28
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	75	75	75	75	75	75
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	3.6	4.5	4.8	5.2	5.4	5.6
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

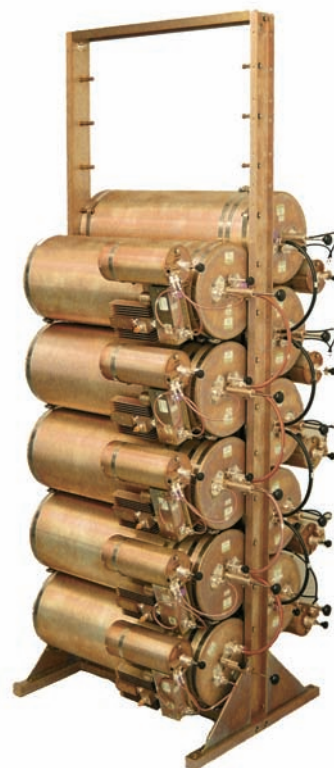
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-10-41	XTC-10-42	XTC-10-43	XTC-10-45	XTC-10-48
6.625" Cavity	XTC-10-71	XTC-10-72	XTC-10-73	XTC-10-75	XTC-10-78
10" Cavity	XTC-10-01	XTC-10-02	XTC-10-03	XTC-10-05	XTC-10-08

XTC – Xpandable Transmit Combiner Series – 10" Cavity

The XTC is the newest evolution of our X-Pass technology. Our Xpandable Transmit Combiners can combine 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 75KHz Tx-Tx spacing or 50KHz 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 a coarse and fine tuning rod for quick and easy field or lab re-tuning.

- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 108-136MHz, 28MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



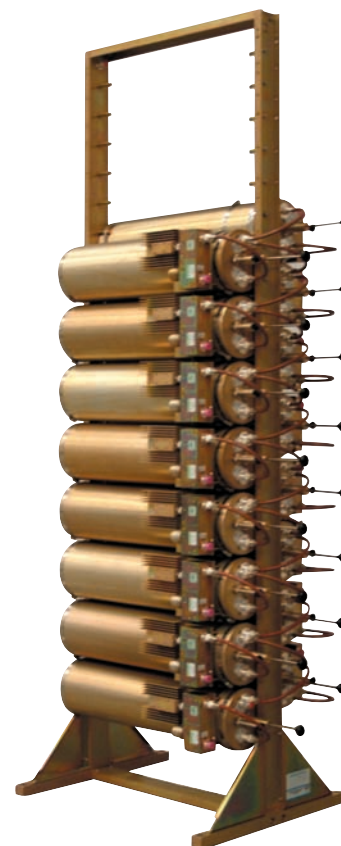
Electrical Specifications	XTC-11-02	XTC-11-04	XTC-11-06	XTC-11-08	XTC-11-0-10	XTC-11-0-12
Frequency Range, MHz	108-136	108-136	108-136	108-136	108-136	108-136
Bandwidth, MHz	28	28	28	28	28	28
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	10	10	10	10	10	10
Min. Channel Sep., KHz	50	50	50	50	50	50
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	6
Max. Insertion Loss Per Chan., dB	4.1	4.8	5.1	5.4	5.6	5.7
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-10-41	XTC-10-42	XTC-10-43	XTC-10-45	XTC-10-48
6.625" Cavity	XTC-10-71	XTC-10-72	XTC-10-73	XTC-10-75	XTC-10-78
10" Cavity	XTC-10-01	XTC-10-02	XTC-10-03	XTC-10-05	XTC-10-08

XTC – Xpandable Transmit Combiner Series – 7" Cavity

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- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 132-174MHz, 42MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes Decense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-13-72	XTC-13-74	XTC-13-76	XTC-13-78	XTC-13-7-10	XTC-13-7-17
Frequency Range, MHz	132-174	132-174	132-174	132-174	132-174	132-174
Bandwidth, MHz	42	42	42	42	42	42
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	75	75	75	75	75	75
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.3	5.4	5.8	6.2	6.5	6.7
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

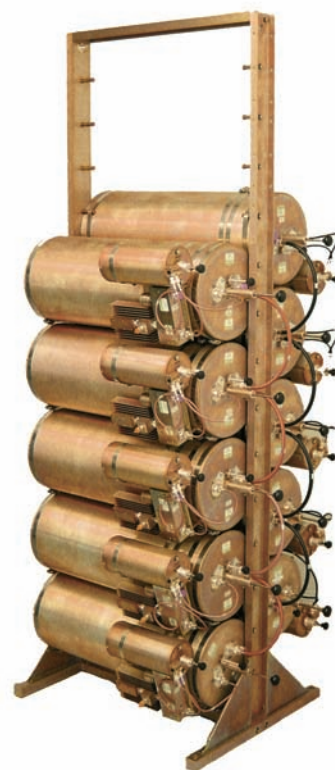
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-13-41	XTC-13-42	XTC-13-43	XTC-13-45	XTC-13-48
6.625" Cavity	XTC-13-71	XTC-13-72	XTC-13-73	XTC-13-75	XTC-13-78
10" Cavity	XTC-13-01	XTC-13-02	XTC-13-03	XTC-13-05	XTC-13-08

XTC – Xpandable Transmit Combiner Series – 10" Cavity

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- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 132-174MHz, 42MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-13-02	XTC-13-04	XTC-13-06	XTC-13-08	XTC-13-0-10	XTC-13-0-12
Frequency Range, MHz	132-174	132-174	132-174	132-174	132-174	132-174
Bandwidth, MHz	42	42	42	42	42	42
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	10	10	10	10	10	10
Min. Channel Sep., KHz	50	50	50	50	50	50
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.1	5.0	5.4	5.7	5.9	6.1
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

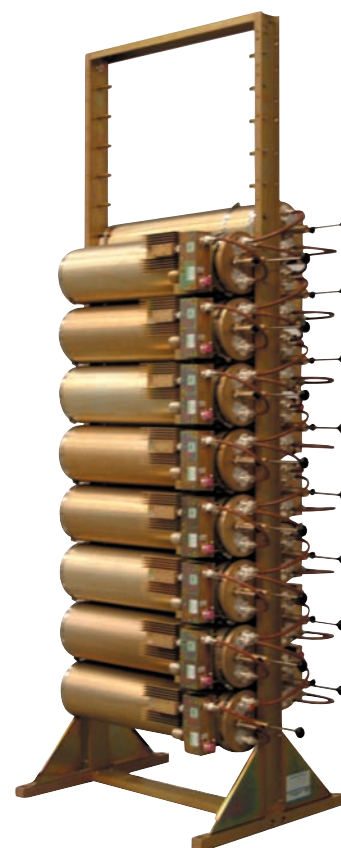
Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 40.25D (1659 x 610 x 1022)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Cavity	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-06-41	XTC-06-42	XTC-06-43	XTC-06-45	XTC-06-48
6.625" Cavity	XTC-06-71	XTC-06-72	XTC-06-73	XTC-06-75	XTC-06-78
10" Cavity	XTC-06-01	XTC-06-02	XTC-06-03	XTC-06-05	XTC-06-08

XTC – Xpandable Transmit Combiner Series – 7" Cavity

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- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 215-300MHz, 85MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-22-72	XTC-22-74	XTC-22-76	XTC-22-78	XTC-22-7-10	XTC-22-7-12
Frequency Range, MHz	215-300	215-300	215-300	215-300	215-300	215-300
Bandwidth, MHz	85	85	85	85	85	85
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	100	100	100	100	100	100
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.1	4.5	5.1	5.4	5.6	5.8
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

Height, in (mm) - (Mounted in X Rack)	65.25H x 24W x 26.4D (1659 x 610 x 671)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK SIZE ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-22-41	XTC-22-42	XTC-22-43	XTC-22-45	XTC-22-48
6.625" Cavity	XTC-22-71	XTC-22-72	XTC-22-73	XTC-22-75	XTC-22-78
10" Cavity	XTC-22-01	XTC-22-02	XTC-22-03	XTC-22-05	XTC-22-08

XTC – Xpandable Transmit Combiner Series – 10" Cavity

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- **Flexible & Expandable Design**

- 1-21 Channels Capacity
- Expandable 1 or more Channels at a time
- Re-Configurable Equipment
- 215-300MHz, 85MHz of Operating Bandwidth

- **Temperature Compensation**

- Assures Frequency Stability

- **High Attenuation**

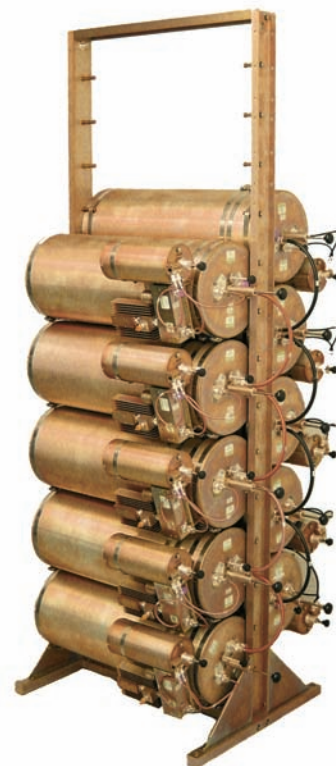
- Minimizes desense and interference

- **Ultra-Low Insertion Losses**

- Low coupling Losses
- Low bridging Losses

- **Continuous High Power Handling Capability**

- 150 Watts – 24/7



Electrical Specifications	XTC-22-02	XTC-22-04	XTC-22-06	XTC-22-08	XTC-22-0-10	XTC-22-0-12
Frequency Range, MHz	215-300	215-300	215-300	215-300	215-300	215-300
Bandwidth, MHz	85	85	85	85	85	85
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	10	10	10	10	10	10
Min. Channel Sep., KHz	75	75	75	75	75	75
Isolation Min. Tx-Tx, dB	70	70	70	70	70	70
Isolation Min. Ant-Tx, dB	60	60	60	60	60	60
Max. Insertion Loss Per Chan., dB	4.2	5.1	5.5	5.8	6	6.2
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

Height, in (mm) - (Mounted in X Rack)

79.5H x 24W x 28.4D (2019 x 610 x 721)

Mounts in 19" Standard Rack

Yes

Yes

Yes

Yes

Yes

Yes

Weight

**** DEPENDS ON SET-UP AND RACK DESIGN ****

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-22-41	XTC-22-42	XTC-22-43	XTC-22-45	XTC-22-48
6.625" Cavity	XTC-22-71	XTC-22-72	XTC-22-73	XTC-22-75	XTC-22-78
10" Cavity	XTC-22-01	XTC-22-02	XTC-22-03	XTC-22-05	XTC-22-08

XTC – Xpandable Transmit Combiner Series – 7" Cavity

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- **Flexible & Expandable Design**

- 1-21Channels Capacity
- Expandable 1 or more Channels at a time
- Re-Configurable Equipment
- 380-512MHz, 132MHz of Operating Bandwidth

- **Temperature Compensation**

- Assures Frequency Stability

- **High Attenuation**

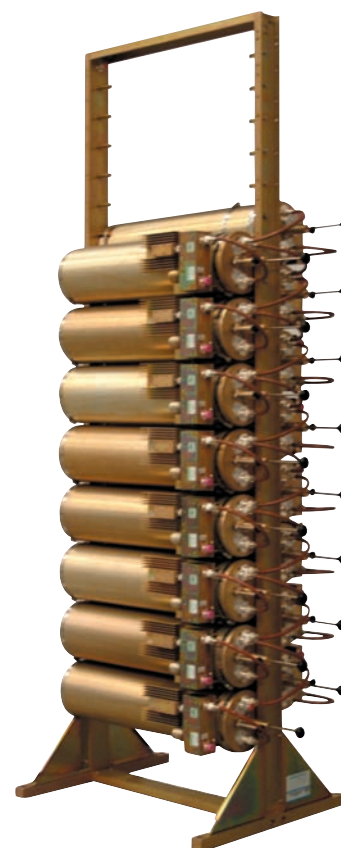
- Minimizes desense and interference

- **Ultra-Low Insertion Losses**

- Low coupling Losses
- Low bridging Losses

- **Continuous High Power Handling Capability**

- 150 Watts – 24/7



Electrical Specifications	XTC-38-72	XTC-38-74	XTC-38-76	XTC-38-78	XTC-38-7-10	XTC-38-7-12
Frequency Range, MHz	380-512	380-512	380-512	380-512	380-512	380-512
Bandwidth, MHz	132	132	132	132	132	132
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	125	125	125	125	125	125
Isolation Min. Tx-Tx, dB	80	80	80	80	80	80
Isolation Min. Ant-Tx, dB	70	70	70	70	70	70
Max. Insertion Loss Per Chan., dB	4.1	5.2	5.7	6.0	6.2	6.4
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

Height, in (mm) - (Mounted in X Rack)*	65.25H x 24W x 36D (1659 x 610 x 914)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

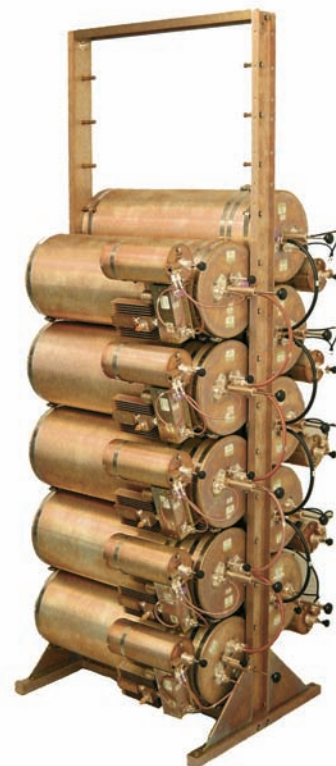
*Using 3/4 wave cavity configuration (available in 1/4 wave configuration).

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-38-41	XTC-38-42	XTC-38-43	XTC-38-45	XTC-38-48
6.625" Cavity	XTC-38-71	XTC-38-72	XTC-38-73	XTC-38-75	XTC-38-78
10" Cavity	XTC-38-01	XTC-38-02	XTC-38-03	XTC-38-05	XTC-38-08

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- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 380-512MHz, 132MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-38-02	XTC-38-04	XTC-38-06	XTC-38-78	XTC-38-07-10	XTC-38-0-12
Frequency Range, MHz	380-512	380-512	380-512	380-512	380-512	380-512
Bandwidth, MHz	132	132	132	132	132	132
Number of Channels	2	4	6	8	10	12
Cavity Diameter, in	10	10	10	10	10	10
Min. Channel Sep., KHz	75	75	75	75	75	75
Isolation Min. Tx-Tx, dB	80	80	80	80	80	80
Isolation Min. Ant-Tx, dB	70	70	70	70	70	70
Max. Insertion Loss Per Chan., dB	4.3	5.4	6.0	6.6	6.9	7.1
Continuous Power Input, Watts	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

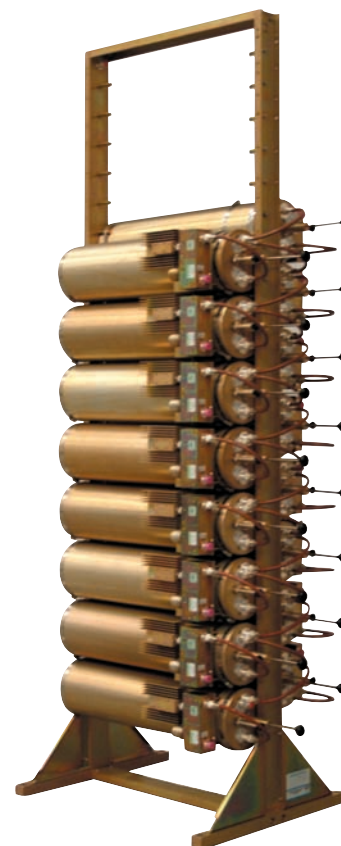
Height, in (mm) - (Mounted in X Rack)	79.5H x 24W x 36D (2019 x 610 x 914)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-38-41	XTC-38-42	XTC-38-43	XTC-38-45	XTC-38-48
6.625" Cavity	XTC-38-71	XTC-38-72	XTC-38-73	XTC-38-75	XTC-38-78
10" Cavity	XTC-38-01	XTC-38-02	XTC-38-03	XTC-38-05	XTC-38-08

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- **Flexible & Expandable Design**
 - 1-21 Channels Capacity
 - Expandable 1 or more Channels at a time
 - Re-Configurable Equipment
 - 746-1000MHz, 254MHz of Operating Bandwidth
- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference
- **Ultra-Low Insertion Losses**
 - Low coupling Losses
 - Low bridging Losses
- **Continuous High Power Handling Capability**
 - 150 Watts – 24/7



Electrical Specifications	XTC-74-02	XTC-74-04	XTC-74-06	XTC-74-78	XTC-74-7-10	XTC-74-7-12
Frequency Range, MHz	746-1000	746-1000	746-1000	746-1000	746-1000	746-1000
Bandwidth, MHz	254	254	254	254	254	254
Number of Channels	2	4	5	8	10	12
Cavity Diameter, in	6.625	6.625	6.625	6.625	6.625	6.625
Min. Channel Sep., KHz	250	250	250	250	250	250
Isolation Min. Tx-Tx, dB	80	80	80	80	80	80
Isolation Min. Ant-Tx, dB	70	70	70	70	70	70
Max. Insertion Loss Per Chan.	3.1	4.1	4.4	4.9	5.2	5.5
Continuous Power Input	150	150	150	150	150	150
Connectors	N Female	N Female	N Female	N Female	N Female	N Female
VSWR	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications

Height, in (Mounted in X Rack)	65.25H x 24W x 20.7D (1659 x 610 x 526)					
Mounts in 19" Standard Rack	Yes	Yes	Yes	Yes	Yes	Yes
Weight	**** DEPENDS ON SET-UP AND RACK DESIGN ****					

Order Information	Single Channel	2 - Channel	3 - Channel	5 - Channel	8 - Channel
4" Cavity	XTC-74-41	XTC-74-42	XTC-74-43	XTC-74-45	XTC-74-48
6.625" Cavity	XTC-74-71	XTC-74-72	XTC-74-73	XTC-74-75	XTC-74-78
10" Cavity	XTC-74-01	XTC-74-02	XTC-74-03	XTC-74-05	XTC-74-08

XTR XPANDABLE TRANSMIT RECEIVER

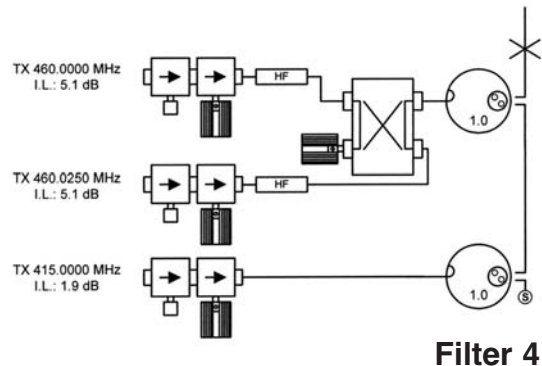
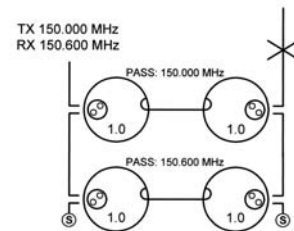
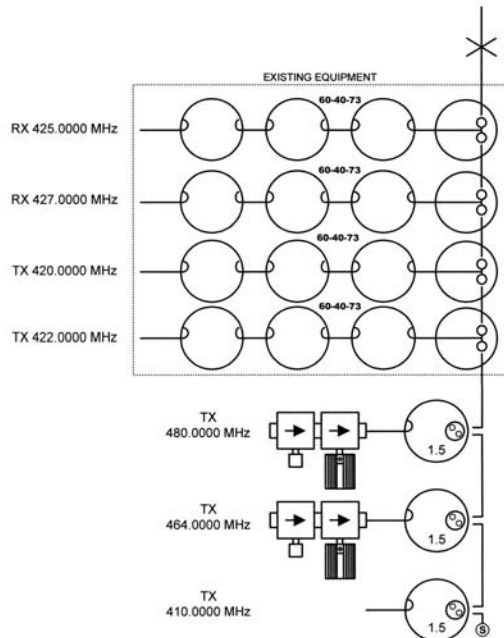
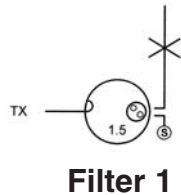
The Next Generation of Combiners

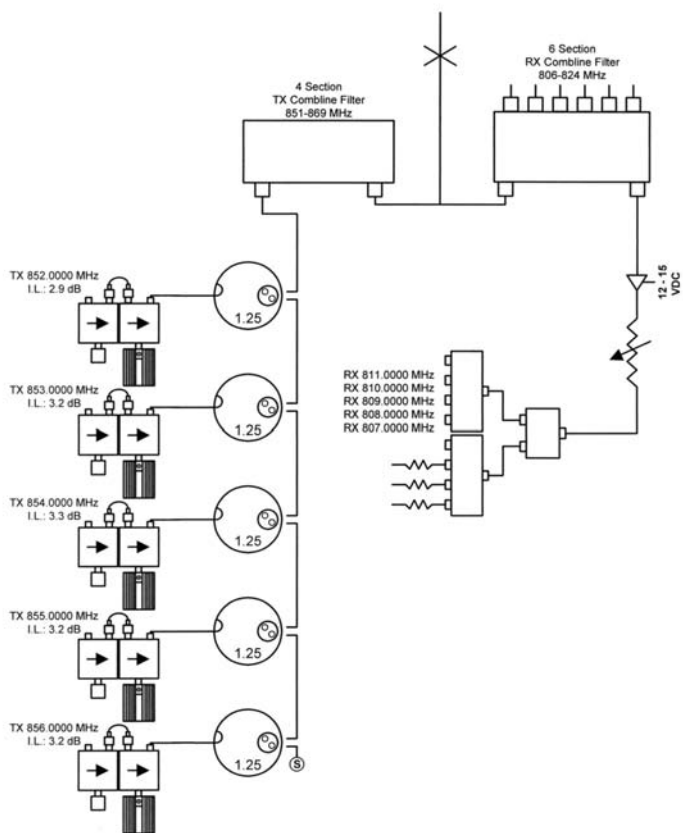
Our X-Pass technology has been taken to the next level. We can now combine your Tx & Rx frequencies onto the same antenna. Our System Design Department can integrate any type of frequency, even in close frequency spaced systems, allowing you to minimize the systems physical space, maximize the efficiency of your system, and combine your Txs and Rxs onto one antenna.

Each of our system designs comes with a full intermodulation study that examines all of the Intermod hits that you would have in your system and even within the tower. Once we have fully examined your intermodulation study, we proceed with a fully customized system solution specific to your needs. There are no box solutions packaged for your needs, all of our solutions are custom tailored to your exact applications requirements.

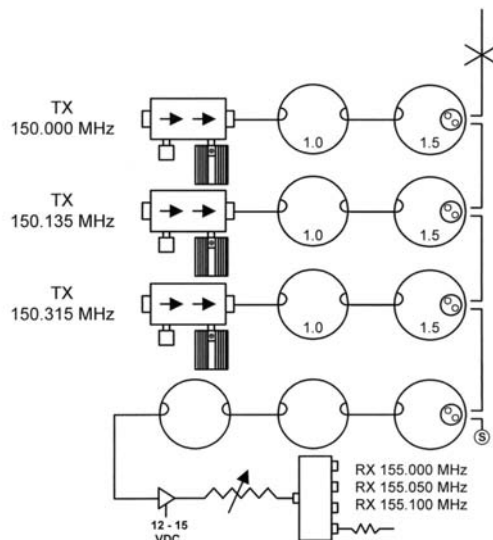
Call now for your free customized system. Tx and Rx frequencies will be needed.

Here are some examples:

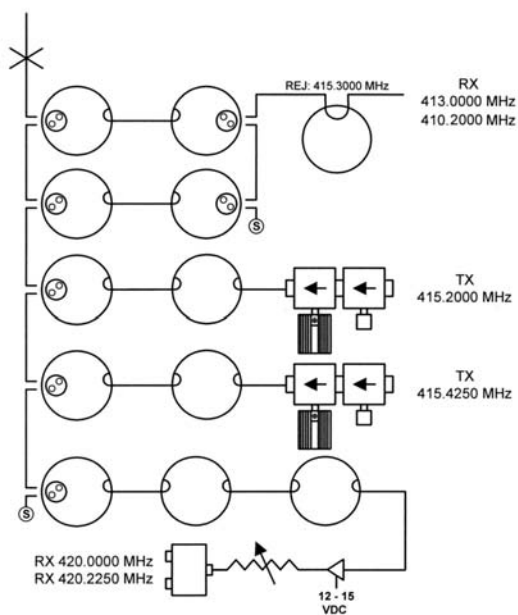




Filter 5



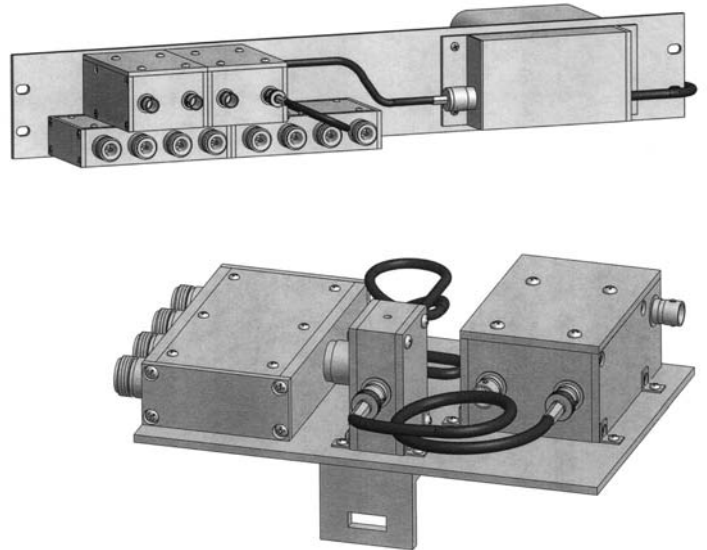
Filter 6



Filter 7

CP XRM-FF-PP Series

Comprod Xpandable 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 and a cavity-mounted version. Each unit consists of a power splitter and an RF amplifier. Every Xpandable Receiver multicouplers has the available optional plug-in power supply.



- **Design**
 - Simple and Cost Effective
- **Mounting**
 - 19" Rack Mount (RM)
 - Cavity Mount (CM)
 - Tray Mount (TRM)
- **Optional 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
# of Channels	2	4	8	16
Rx/Rx Isolation, dB	20+	20+	20+	20+
System Voltage, VDC	12-15	12-15	12-15	12-15
Amplifier Gain, dB	30+	30+	30+	30+
Amplifier Noise Figure, dB	3.0	3.0	3.0	3.0
Amplifier Bias Voltage, VDC	13.6	13.6	13.6	13.6
Amplifier Current Draw, mA	200	200	200	200
Nominal Impedance, Ohms	50	50	50	50
Max. VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications				
Mounting	RM / CM	RM / CM	RM / CM	RM / CM
Connectors	BNC / N	BNC / N	BNC / N	BNC / N
Weight, lbs	12	12	12	12

Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply
XRM-13-02	XRM-13-02RM	XRM-13-02CM	XRM-13-02TRM	XRM-13-02PS
XRM-13-04	XRM-13-04RM	XRM-13-04CM	XRM-13-04TRM	XRM-13-04PS
XRM-13-08	XRM-13-08RM	XRM-13-08CM	XRM-13-08TRM	XRM-13-08PS
XRM-13-16	XRM-13-16RM	XRM-13-16CM	XRM-13-16TRM	XRM-13-16PS

CP XRM-FF-PP Series

Comprod Xpandable 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, tray mounted and a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Xpandable Receiver Multicouplers has the available optional plug-in power supply.

- **Design**
 - Simple and Cost Effective
- **Mounting**
 - 19" Rack Mount (RM)
 - Cavity Mount (CM)
 - Tray Mount (TRM)
- **Optional Power Supply (PS)**

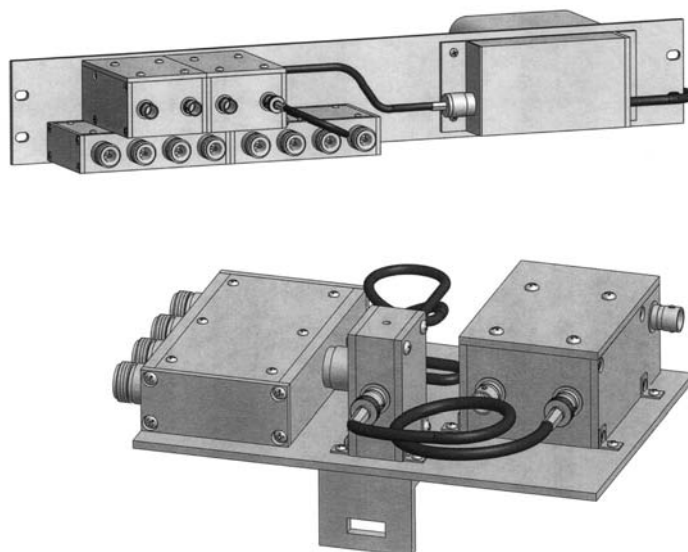


Electrical Specifications	XRM-30-02	XRM-30-04	XRM-30-08	XRM-30-16
Frequency Range, MHz	300-512	300-512	300-512	300-512
Pass Band, MHz	3-10	3-10	3-10	3-10
# of Channels	2	4	8	16
Rx/Rx Isolation, dB	23+	23+	23+	23+
System Voltage, VDC	12-15	12-15	12-15	12-15
Amplifier Gain, dB	30+	30+	30+	30+
Amplifier Noise Figure, dB	3.0	3.0	3.0	3.0
Amplifier Bias Voltage, VDC	13.6	13.6	13.6	13.6
Amplifier Current Draw, mA	200	200	200	200
Nominal Impedance, Ohms	50	50	50	50
Max. VSWR	1.25:1	1.25:1	1.25:1	1.25:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications				
Mounting	RM / CM	RM / CM	RM / CM	RM / CM
Connectors (Input / Output)	BNC / N	BNC / N	BNC / N	BNC / N
Weight, lbs	12	12	12	12

Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply
XRM-30-02	XRM-30-02RM	XRM-30-02CM	XRM-30-02TRM	XRM-30-02PS
XRM-30-04	XRM-30-04RM	XRM-30-04CM	XRM-30-04TRM	XRM-30-04PS
XRM-30-08	XRM-30-08RM	XRM-30-08CM	XRM-30-08TRM	XRM-30-08PS
XRM-30-16	XRM-30-16RM	XRM-30-16CM	XRM-30-16TRM	XRM-30-16PS

CP XRM-FF-PP Series

Comprod Xpandable 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, tray mounted and a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Xpandable Receiver multicouplers has the offered optional plug-in power supply.



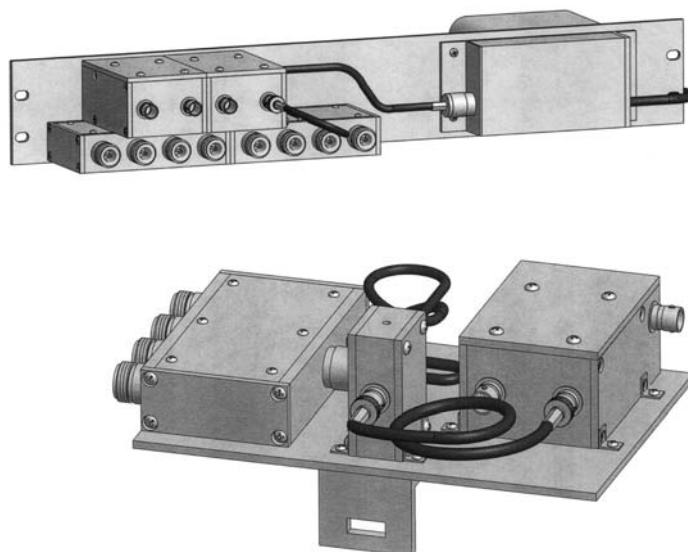
- **Design**
 - Simple and Cost Effective
- **Mounting**
 - 19" Rack Mount(RM)
 - Cavity Mount (CM)
 - Tray Mount (TM)
- **Optional Power Supply (PS)**

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
# of Channels	2	4	8	16	32
Rx/Rx Isolation, dB	23+	23+	23+	23+	23+
System Voltage, VDC	12-15	12-15	12-15	12-15	12-15
Amplifier Gain, dB	28+	28+	28+	30+	30+
Amplifier Noise Figure, dB	3.0	3.0	3.0	3.0	3.0
Amplifier Bias Voltage, VDC	13.6	13.6	13.6	13.6	13.6
Amplifier Current Draw, mA	200	200	200	200	200
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	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications					
Mounting	RM / CM	RM / CM	RM / CM	RM / CM	RM / CM
Connectors	BNC / N	BNC / N	BNC / N	BNC / N	BNC / N
Weight, lbs	12	12	12	12	12

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

CP XRM-FF-PP Series

Comprod Xpandable 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, tray mounted and a cavity mounted version. Each unit consists of a power splitter and an RF amplifier. Every Xpandable Receiver multicouplers has the offered optional plug-in power supply.



- **Design**
 - Simple and Cost Effective
- **Mounting**
 - 19" Rack Mount (RM)
 - Cavity Mount (CM)
 - Tray Mount (TRM)
- **Optional 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
# of Channels	2	4	8	16	32
Rx/Rx Isolation, dB	23+	23+	23+	23+	23+
System Voltage, VDC	12-15	12-15	12-15	12-15	12-15
Amplifier Gain, dB	28+	28+	28+	28+	28+
Amplifier Noise Figure, dB	3.0	3.0	3.0	3.0	3.0
Amplifier Bias Voltage, VDC	13.6	13.6	13.6	13.6	13.6
Amplifier Current Draw, mA	200	200	200	200	200
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	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications					
Mounting	RM / CM	RM / CM	RM / CM	RM / CM	RM / CM
Connectors	BNC / N	BNC / N	BNC / N	BNC / N	BNC / N
Weight, lbs	12	12	12	12	12

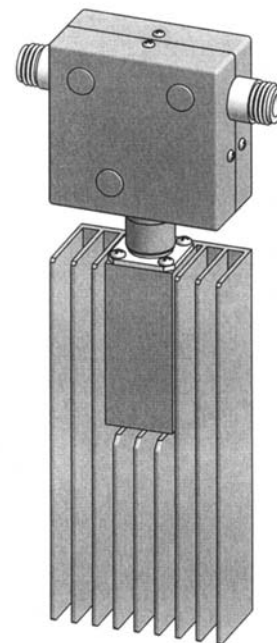
Order Information	Rack Mount	Cavity Mount	Tray Mount	Power Supply
XRM-90-02	XRM-90-02RM	XRM-90-02CM	XRM-90-02TRM	XRM-90-02PS
XRM-90-04	XRM-90-04RM	XRM-90-04CM	XRM-90-04TRM	XRM-90-04PS
XRM-90-08	XRM-90-08RM	XRM-90-08CM	XRM-90-08TRM	XRM-90-08PS
XRM-90-16	XRM-90-16RM	XRM-90-16CM	XRM-90-16TRM	XRM-90-16PS

LOW POWER SINGLE ISOLATORS

CP LP21-FF-PP

These Isolators are some of the best in the industry for blocking the transfer of RF power flow in the opposite direction. Low-Medium Power, and total reliability, are some 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 applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250 Watt combinations, as well as combined with 2nd Harmonic filters for Hybrid Combiners, HTC'S.

- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band



Electrical Specifications	21-13-XX	21-40-XX	21-80-XX
Frequency Range, MHz	138-174	406-512	746-960
Frequency Split, MHz	30	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	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications			
Dimensions, in	3.94H x 3.75W x 1.78D	4.19H x 3.99W x 1.78D	5.63H x 3.15W x 1.84D
Weight, lbs	1.40	1.41	1.32
Mounting	**** Cavity / Plate / Cabinet / Rack Mount Are All Available ****		

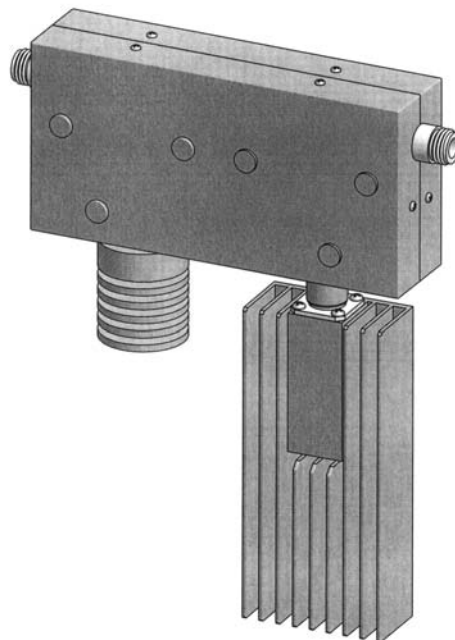
Order Information	5 Watt Load	25 Watt Load	60 Watt Load	100 Watt Load	150 Watt Load
21-13-XX	21-13-05	21-13-25	21-13-60	21-13-100	21-13-150
21-40-XX	21-40-05	21-40-25	21-40-60	21-40-100	21-40-150
21-80-XX	21-80-05	21-80-25	21-80-60	21-80-100	21-80-150

XX = Load size.

LOW POWER DUAL ISOLATORS

CP LP22-FF-PP

Comprod Isolators are some of the best in the industry for blocking the transfer of RF power flow in the opposite direction. Low-Medium Power, and Fiercely Reliable, are some 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 applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250 Watt combinations, and combined with 2nd Harmonic filters for Hybrid Combiners, HTC's.



- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band

Electrical Specifications	22-13-XX	22-40-XX	22-80-XX
Frequency Range, MHz	138-174	406-512	746-960
Frequency Split, MHz	30	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	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications			
Dimensions, in	3.94H x 6.25W x 1.78D	4.19H x 8.75W x 1.78D	5.63H x 6.13W x 1.84D
Weight, lbs	2.6	2.8	2.75
Mounting	**** Cavity / Plate / Cabinet / Rack Mount		Are All Available ****

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
22-80-XX	22-80-05	22-80-25	22-80-60	22-80-100	22-80-150

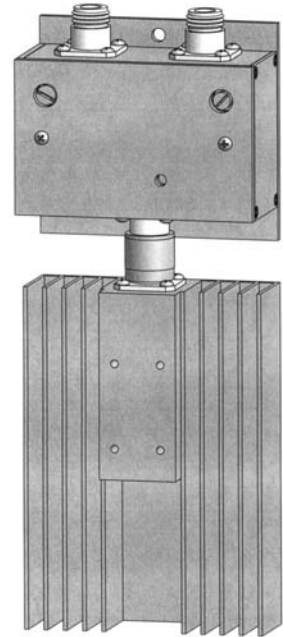
XX = Load size.

HIGH POWER DUAL ISOLATORS

CP HP41-FF-PP

Comprod Isolators are some of the best in the industry for blocking the transfer of RF power flow in the opposite direction. High Power, and Fiercely Reliable, are some 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 applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250 Watt combinations, and combined with 2nd Harmonic filters for Hybrid Combiners, HTC's.

- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band



Electrical Specifications	41-13-XX	41-40-XX	41-80-XX
Frequency Range, MHz	138-174	406-512	746-960
Frequency Split, MHz	30	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	0.35	0.25
VSWR	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications			
Dimensions, in	3.94H x 3.75W x 1.78D	4.19H x 3.99W x 1.78D	5.63H x 3.15W x 1.84D
Weight, lbs	1.40	1.41	1.32
Mounting	**** Cavity / Plate / Cabinet / Rack Mount		Are All Available ****

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
41-80-XX	41-80-05	41-80-25	41-80-60	41-80-100	41-80-150

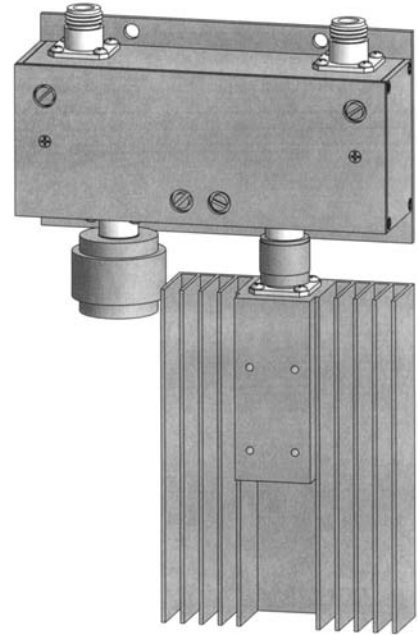
XX = Load size.

HIGH POWER DUAL ISOLATORS

CP HP42-FF-PP

Comprod Isolators are some of the best in the industry for blocking the transfer of RF power flow in the opposite direction. High Power, and Fiercely Reliable, are some 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 applications. These isolators can be combined with a variety of loads, 5/25/60/100/150/250 Watt combinations, and combined with 2nd Harmonic filters for Hybrid Combiners, HTC's.

- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band



Electrical Specifications	42-13-XX	42-40-XX	42-80-XX
Frequency Range, MHz	138-174	406-512	746-960
Frequency Split, MHz	30	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	50	50	50
Typical Insertion Loss, dB	0.9	0.7	0.5
VSWR	1.22:1	1.22:1	1.22:1
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C

Mechanical Specifications			
Dimensions, in	3.94H x 6.25W x 1.78D	4.19H x 8.75W x 1.78D	5.63H x 6.13W x 1.84D
Weight, lbs	2.6	2.8	2.75
Mounting	**** Cavity / Plate / Cabinet / Rack Mount		Are All Available ****

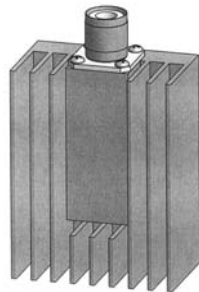
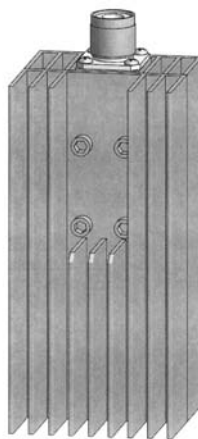
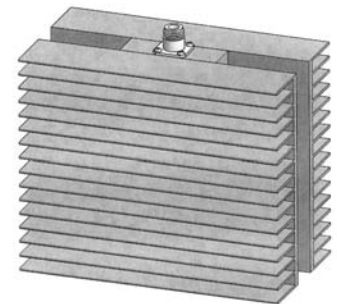
Order Information	5 Watt Load	25 Watt Load	60 Watt Load	100 Watt Load	150 Watt Load
42-13-XX	42-13-05	42-13-25	42-13-60	42-13-100	42-13-150
42-40-XX	42-40-05	42-40-25	42-40-60	42-40-100	42-40-150
42-80-XX	42-80-05	42-80-25	42-80-60	42-80-100	42-80-150

XX = Load size.

CP45-XX-03 Series

Comprod's continuous RF Loads have been specifically developed to provide our customers with a product that is truly install and forget. The RF Loads are specifically designed to absorb reflected power continuously. Our loads are traditionally larger than the industry average, a heavy duty version, providing constant protection to your transmitters with their oversized heat sinks.

- **Excellent Return Loss**
- **Continuous Power Duty**
 - 24/7 Operation
 - Install and Forget
- **Oversized Heat Sinks**

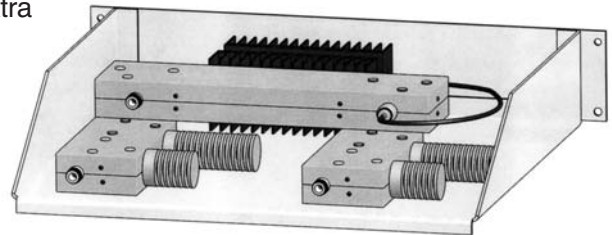
**45-05-05****45-05-25A****45-05-25B****45-05-60****45-05-100****45-05-250**

Electrical Specifications	45-05-05	45-05-25	45-05-60	45-05-100	45-05-250
Frequency Range, MHz	5 - 1000	5 - 1000	5 - 1000	5 - 1000	5 - 1000
Load Type	**** Dry ****				
Cooling	**** Natural Air Convention ****				
Duty Cycle	**** Continuous ****				
Connectors	**** N Male ****				N Female
Impedance, Ohms	**** 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)
Heatsink Power Density, Watts/inches	0.54	0.44	0.35	0.3	0.28
VSWR	**** 1.05:1 ****				
Temperature	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications					
Maximum length, in	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

CP HTC-13-0X

Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTC's are perfect for very close space frequency transmitters. These devices are ideally used when our X-Pass technology does not provide enough performance and isolation for very close Tx-Tx. Hybrid Combiners are also great for intermodulation panels, providing extra protection with their 2nd harmonic filters, or when physical space is a premium or is constrained, and 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 maximizes performance across operating band

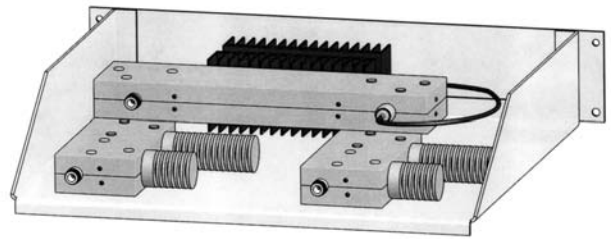


Electrical Specifications	HTC-13-04HS	HTC-13-04HD
Frequency Range, MHz	138-174	138-174
Frequency Split, MHz	30	24
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.
Channels	4	4
Continuous Power Input, Watts	100	100
Connectors	N Female	N Female
Isolator	Single	Dual
Isolation Tx/Tx, dB	65	100
Isolation Ant/Tx	35+	70+
Typical Insertion Loss, dB	6.8	7.0
VSWR - Input/Output	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications		
Dimensions, in	10.5H x 19W x 14.5D	10.5H x 19W x 14.5D
Weight, lbs	11.8	12.8
Mounting	19" Rack Mount	19" Rack Mount

CP HTC-40-0X

Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTC's are perfect for very close space frequency transmitters. These devices are ideally used when our X-Pass technology does not provide enough performance and isolation for very close Tx-Tx. Hybrid Combiners are also great for intermodulation panels, providing extra protection with their 2nd harmonic filters, or when physical space is a premium or is constrained, and providing extra isolation between two very close transmitters.

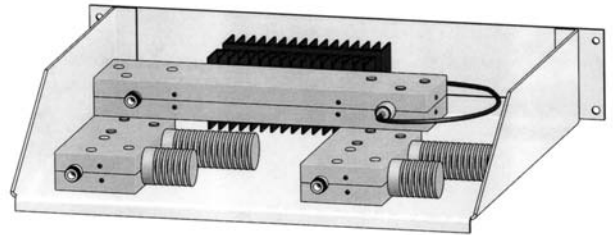
- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band



Electrical Specifications	HTC-40-04HS	HTC-40-04HD
Frequency Range, MHz	406-512	406-512
Frequency Split, MHz	30	24
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.
Channels	4	4
Continuous Power Input, Watts	100	100
Connectors	N Female	N Female
Isolator	Single	Dual
Isolation Tx/Tx, dB	65	100
Isolation Ant/Tx	35+	70+
Typical Insertion Loss, dB	6.8	7.0
VSWR - Input/Output	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications		
Dimensions, in	10.5H x 19W x 14.5D	10.5H x 19W x 14.5D
Weight, lbs	11.8	12.8
Mounting	19" RM	19" RM

CP HTC-80-0X

Our Hybrid Transmit Combiners are designed for compact, close frequency installations. Our HTC's are perfect for very close space frequency transmitters. These devices are ideally used when our X-Pass technology does not provide enough performance and isolation for very close Tx-Tx. Hybrid Combiners are also great for intermodulation panels, providing extra protection with their 2nd harmonic filters, or when physical space is a premium or is constrained, and providing extra isolation between two very close transmitters.

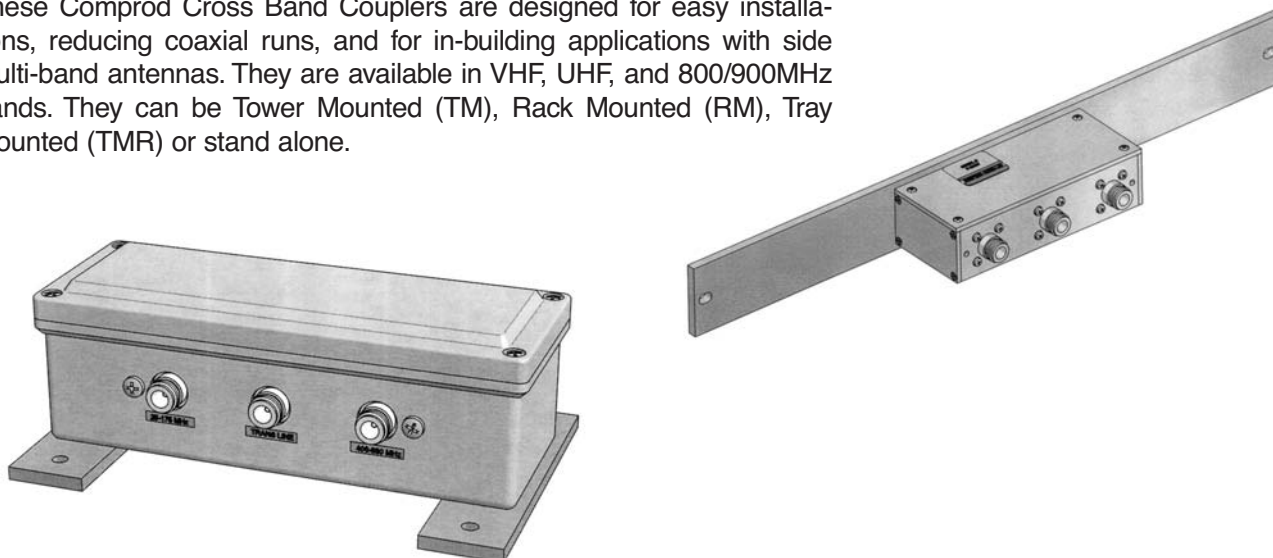


- **High Isolation**
 - Minimizes Intermodulation Products
- **Low Loss**
 - Maximizes System Performance
- **Continuous Power**
 - Physical Size and Materials used maximizes performance across operating band

Electrical Specifications	HTC-80-04HS	HTC-80-04HD
Frequency Range, MHz	806-960	806-960
Frequency Split, MHz	30	24
Bandwidth	2.5% Cent. Freq.	1% Cent. Freq.
Channels	4	4
Continuous Power Input, Watts	100	100
Connectors	N Female	N Female
Isolator	Single	Dual
Isolation Tx/Tx, dB	65	100
Isolation Ant/Tx	35+	70+
Typical Insertion Loss, dB	6.8	7.0
VSWR - Input/Output	1.1:1 / 1.3:1	1.1:1 / 1.3:1
Temperature	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications		
Dimensions, in	10.5H x 19W x 14.5D	10.5H x 19W x 14.5D
Weight, lbs	11.8	12.8
Mounting	19" RM	19" RM

CP XBC-FF-PP Series

These Comprod Cross Band Couplers are designed for easy installations, reducing coaxial runs, and for in-building applications with side multi-band antennas. They are available in VHF, UHF, and 800/900MHz bands. They can be Tower Mounted (TM), Rack Mounted (RM), Tray Mounted (TMR) or stand alone.



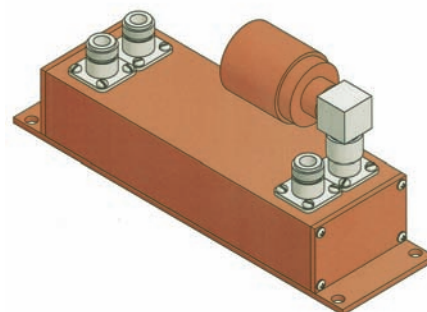
Electrical Specifications		XBC-02-80	XBC-02-80R	XBC-38-80	XBC-38-80R	XBC-38-80RX
Frequency Range, MHz	1 st	25-175	25-175	380-512	380-512	380-512
	2 nd	380-960	380-960	806-960	806-960	806-960
Typical Loss, dB	1 st	0.35	0.35	0.20	0.350	0.30
	2 nd	0.50	0.50	0.20	0.50	0.50
Isolation, dB		40	40	40	40	40
Power Rating	1 st	250	Rx Only	250	Rx Only	250
	2 nd	250	Rx Only	250	Rx Only	Rx Only
Connectors				**** N Female ****		
VSWR				**** 1.25:1 ****		
Temperature		-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C	-40°C to +60°C
Mechanical Specifications						
Dimensions		**** DEPENDS ON MOUNTING CONFIGURATION ****				
Rack Mount		**** DEPENDS ON MOUNTING CONFIGURATION ****				
Tower Mount		**** DEPENDS ON MOUNTING CONFIGURATION ****				

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

CP49-FF-YY-XX Series

Comprod offers a full line of Hybrid Directional Couplers. The full range of decoupling values allows balanced power division and distribution. These couplers are Bi-Directional and are well suited for two-way communications systems. A full line of Tri-Band models is available for distribution of VHF, UHF and 800MHz 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 a Comprod Technical support technician for more details

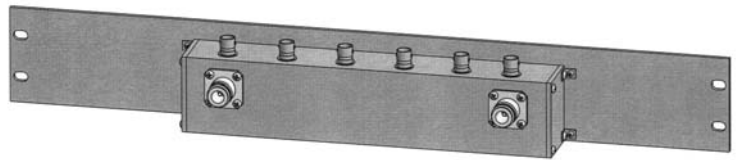


Model With No Load	Model With 5 Watt Load	Model With 25 Watt Load	Frequency Range	Decoupling (dB)	Thru-line Loss (dB)	Power Split Ratio (%)
49-13-03-00	49-13-03-05	49-13-03-25	138-174MHz	-3±0.7	-3.0±0.3	50 / 0
49-13-48-00	49-13-48-05	49-13-48-25	138-174MHz	-4.8±0.7	-4.8±0.3	67 / 33
49-13-06-00	49-13-06-05	49-13-06-25	138-174MHz	-6.0±1.0	-1.2±0.2	75 / 25
49-13-07-00	49-13-07-05	49-13-07-25	138-174MHz	-7.0±1.0	-1.0±0.2	80 / 20
49-13-10-00	49-13-10-05	49-13-10-25	138-174MHz	-10.0±1.0	-0.5±0.2	90 / 10
49-13-20-00	49-13-20-05	49-13-20-25	138-174MHz	-20.0±1.0	-0.3 max.	99 / 1
49-38-03-00	49-38-03-05	49-38-03-25	380-512MHz	-3±0.7	-3.0±0.3	50 / 50
49-38-48-00	49-38-48-05	49-38-48-25	380-512MHz	-4.8±0.7	-4.8±0.3	67 / 33
49-38-06-00	49-38-06-05	49-38-06-25	380-512MHz	-6.0±1.0	-1.2±0.2	75 / 25
49-38-07-00	49-38-07-05	49-38-07-25	380-512MHz	-7.0±1.0	-1.0±0.2	80 / 20
49-38-10-00	49-38-10-05	49-38-10-25	380-512MHz	-10.0±1.0	-0.5±0.2	90 / 10
49-38-15-00	49-38-15-05	49-38-15-25	380-512MHz	-15.0	-0.2 max.	97 / 3
49-38-20-00	49-38-20-05	49-38-20-25	380-512MHz	-20.0	-0.2 max.	99 / 1
49-38-30-00	49-38-30-05	49-38-30-25	380-512MHz	-30.0	-0.2 max.	99.9 / 0.1
49-74-03-00	49-38-03-05	49-38-03-25	746-960MHz	-3±0.7	-3.0±0.3	50 / 50
49-74-48-00	49-38-48-05	49-38-48-25	746-960MHz	-4.8±0.7	-4.8±0.3	67 / 33
49-74-06-00	49-38-06-05	49-38-06-25	746-960MHz	-6.0±1.0	-1.2±0.2	75 / 25
49-74-07-00	49-38-07-05	49-38-07-25	746-960MHz	-7.0±1.0	-1.0±0.2	80 / 20
49-74-10-00	49-38-10-05	49-38-10-25	746-960MHz	-10.0±1.0	-0.5±0.2	90 / 10
49-74-15-00	49-38-15-05	49-38-15-25	746-960MHz	-15.0	-0.2 max.	97 / 3
49-74-20-00	49-38-20-05	49-38-20-25	746-960MHz	-20.0	-0.2 max.	99 / 1
49-74-30-00	49-38-30-05	49-38-30-25	746-960MHz	-30.0	-0.2 max.	99.9 / 0.1

CP57-FF-XX Series

These Comprod Comblime 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 wide band receiver multicoupler the preselectors narrow the passband to the desired bandwidth. Each cavity is temperature compensated for operation between -40° to +60°C. Each cavity has a gold alodine finish, silver plated loops, and plated tuning rods. Comprod Preselectors are available in a wide range of frequency splits, Bandwidth and Cavity size.

- **Temperature Compensation**
 - Assures Frequency Stability
- **High Attenuation**
 - Minimizes desense and interference from adjacent systems
- Several other preselectors are available either comblime or our full line of cavity preselectors. Sizes range from the very compact 1" helical filter to the very selective 6.625" cavity preselector, contact a Comprod Technical Support technician for details



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
Type	Comblime	Comblime	Comblime	Comblime	Comblime
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 @ Fo 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					
Dimensions HxWxD, in (mm)	5.25x27x4.5 (133x686x114)	3.5x19x6 (89x483x152)	3.5x19x6 (89x483x152)	3.5x19x6 (89x483x152)	3.5x19x6 (89x483x152)

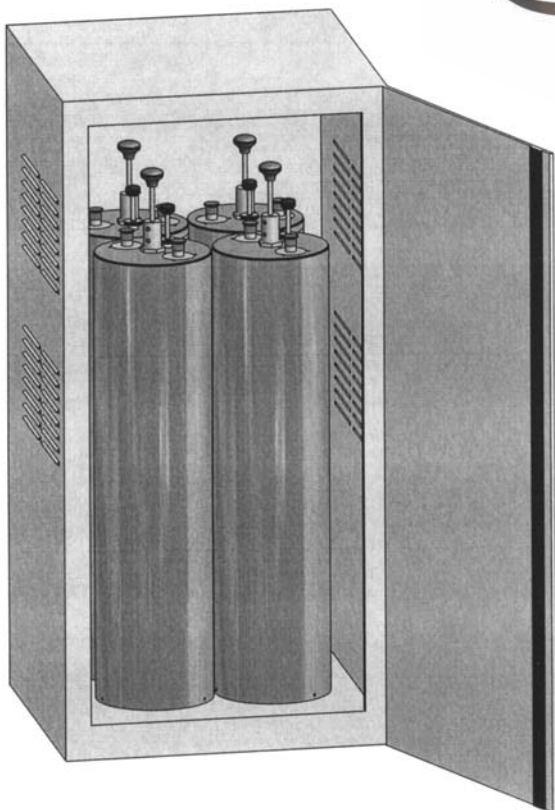
Order information: specify working frequency, bandwidth, power and isolation required.

Mounting Hardware

Comprod Communications has many types of mounting hardware:

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

We also offer custom Mounting Hardware specifically manufactured to your specifications. Our metal shop not only manufactures our own racks, cabinets, and mounting hardware, but has the capability to design, build, and manufacture any concepts that you may have.



FILTER RACKS

XTC – Xpandable Transmit Combiner Series

Comprod filters racks are designed for flexible, closely installed filter systems. Each rack has its own benefits, space constraints, ease of installation, and cost effectiveness.

We offer four types of racks:

19" Standard Rack

A standard 19" rack with mounting holes on either side of the rack for ease of installation. Available in different heights.

X-Rack

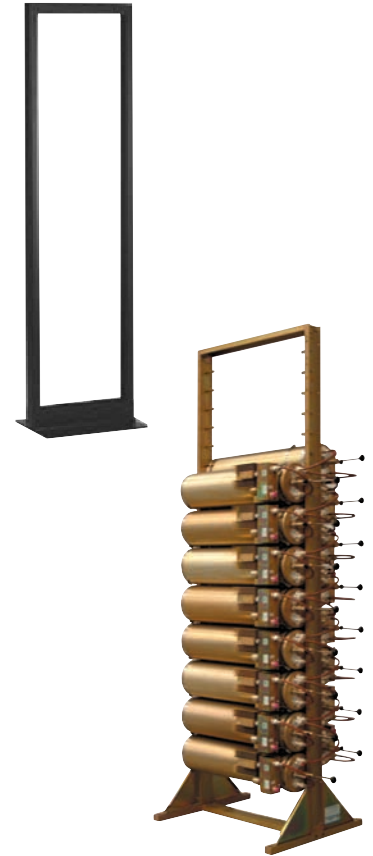
The X-Rack was specifically developed for our X-Series filtration. This racking system allows for maximum cavity installation, but minimizes the amount of physical space used. All cavities mount horizontally for easy installation and removal. Most systems will be supplied Turn-key in these forms, pre-assembled for quick installation. The capacity per rack is (21) cavities. Available in different heights.

Stak Rack

The Stak Rack is used when space is also a premium. It must be assembled at the site, two Stak Racks can hold (40) cavities. All cavities are mounted horizontally, (4) per row.

Wall-Mount & Cabinets

We have multiple versions of these cabinets and cavity mounts. Please call our offices for more information, please do not hesitate to ask for custom installations as well.



Rack Style	Model Number	Cavity Size	Cavity Length	# of Cav.	Height	Width	Depth
X Rack	19-10-26-13	10"	26"	13	79.5"	24"	28.69"
X Rack	19-07-13-15	6.625"	13"	15	65.25"	24"	15.81"
X Rack	19-07-11-15	6.625"	11.5"	15	65.25"	24"	14.19"
X Rack	19-07-11-20	6.625"	11.5"	21	86.5"	24"	14.19"
X Rack	19-07-26-20	6.625"	26"	21	86.5"	24"	28.69"
X Rack	19-07-26-15	6.625"	26"	15	65.25"	24"	28.69"
X Rack	19-07-13-20	6.625"	13"	21	86.5"	24"	15.81"
X Rack	19-10-26-19	10"	26"	19	108"	24"	28.69"
Stak Rack	HRV-85	6.625"	26"	20	42.62"	32.75"	30.25"
Stak Rack	HRU-85	6.625"	11.5"	20	42.62"	32.75"	18.25"
19" Standard Rack		**** Call for Available Dimensions ****					

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Vision

*OUR VISION IS TO BE THE WORLD'S MOST DYNAMIC RF TELECOMMUNICATION COMPANY,
A LEADER IN ANTENNA AND FILTER DESIGN, ESSENTIAL TO THE EVOLUTION
OF OUR INDUSTRY, TO HAVE OUR ANTENNAS ON EVERY TOWER
AND TO HAVE OUR FILTERS AT EVERY SITE, GLOBALLY.*



Mission

*COMPROD COMMUNICATIONS LTD IS A LEADING RF ANTENNA
AND FILTER MANUFACTURER PROVIDING SOME OF THE MOST INNOVATIVE
AND CUSTOMIZED PRODUCTS ON THE MARKET. WE ARE DEDICATED TO OUR CUSTOMERS,
PROVIDING TOP NOTCH QUALITY PRODUCTS BACKED BY THE BEST CUSTOMER SERVICE
AND TECHNICAL SUPPORT IN OUR INDUSTRY.*

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