



**SAFETY, PERFORMANCE
AND DEPENDABILITY
WHEREVER YOU ARE**

Antennas and Filters for Mobile Communications

*Ensuring high availability and reliability for your
communication systems*

The transportation operators are faced with a growing number of challenges on a daily basis. We understand their reliance on RF networks as a key element to achieve the highest standards of compliance and safety. We offer a complete range of products delivering mobile communications or coverage along highways, railway transportation and commuter services as well as in-building or remote solutions.



COMPROD
Simplifying RF Solutions

COMPROD INC.

High Quality • Superior Performance • Engineering Design • Excellent Technical Support

Trusted by over 1,000 customers worldwide

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

Building on our engineering expertise and experience, we offer a complete range of high-quality, reliable products that are designed for all Mobile Communications. The products featured in this catalog are provided specifically for transportation operators. Our antennas and filters are known for their robust design and long-term reliability. We provide products and services to both transport and Public Safety clients. Offering full design customization capabilities, we can adapt and optimize any product to meet unique electrical or mechanical performance requirements (e.g. higher front-back ratio; smaller size footprint; black anodization, etc.)

Our Canadian manufacturing facility is certified under ISO 9001:2008 Quality Assurance standards.



Comprod's Headquarter Facilities, Boucherville, QC, Canada

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552-75 Series

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

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

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

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

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

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



550-75 Series

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

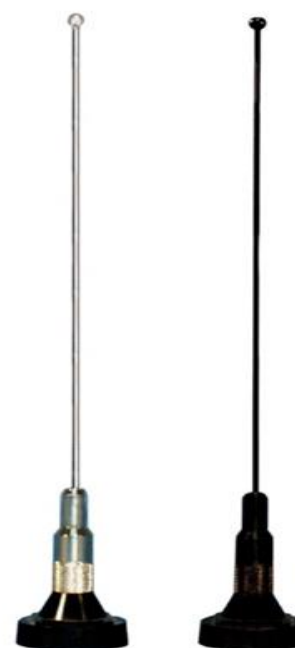
Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. Triple-plated chrome or black finishes are available.

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

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

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

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



555-75 Series

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

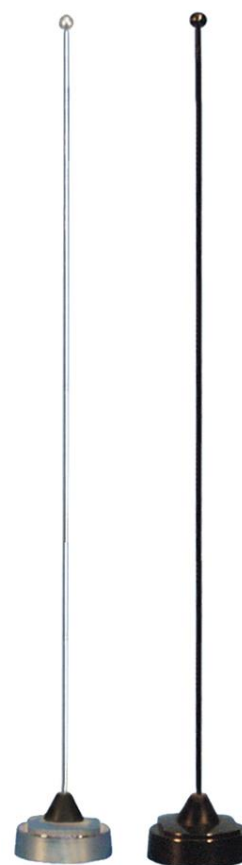
Stylish and Durable: These antennas are manufactured using the best corrosion resistant materials and finishes available. Triple-plated chrome or black finishes are available.

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

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

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

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



565-75 Series

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

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

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 keeps moisture out of the antenna.

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

Electrical Specifications	565-75	
Frequency Range, MHz	27-54	
Gain	Unity	
Impedance, Ohms	50	
Power Rating, Watts	200	
VSWR	2.0:1	
Bandwidth	2% of center freq.	
Mechanical Specifications	565-75	
Radiator: Chrome A	Tapered S.S., 0.125 dia.	
Black B	Tapered S.S., 0.10 dia.	
Base	ABS, spring-loaded contact	
Height, in	52 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	565-75A	565-75B
Frequency	Chrome	Black
27-31 MHz	565-75A*1	565-75B*1
30-35 MHz	565-75A*2	565-75B*2
34-40 MHz	565-75A*3	565-75B*3
40-47 MHz	565-75A*4	565-75B*4
47-54 MHz	565-75A*5	565-75B*5



573-75 Series

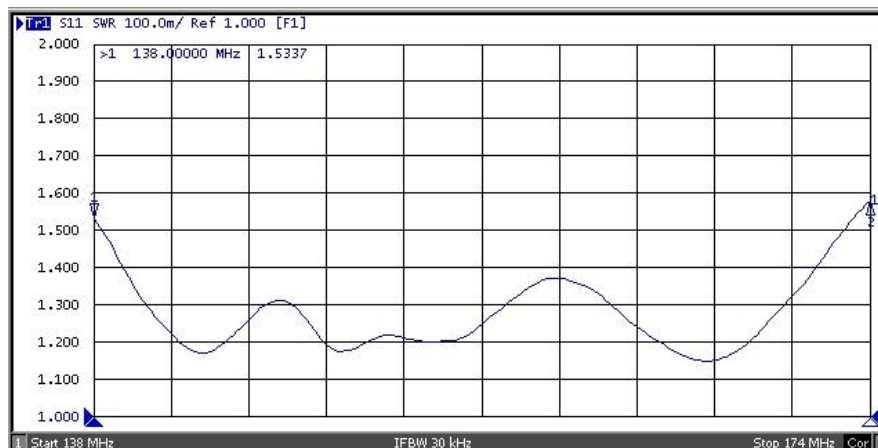
Performance: This broadband 1/4-wave antenna provides 0 dBd of gain over its operating bandwidth.

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

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

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

Electrical Specifications	573-75	
Frequency Range, MHz	138-174	
Gain	Unity	
Impedance, Ohms	50	
Power Rating, Watts	100	
Bandwidth, MHz	40MHz @ 1.8:1 VSWR	
Mechanical Specifications	573-75	
Radiator	Stainless Steel	
Base	ABS, spring-loaded contact	
Height, in	25	
Mounting	Standard Motorola NMO	
Ordering Information	573-75	
Description	Standard Model	With Spring Mount
Antenna with chrome finish and rubber boot	573-75R	573-75SR



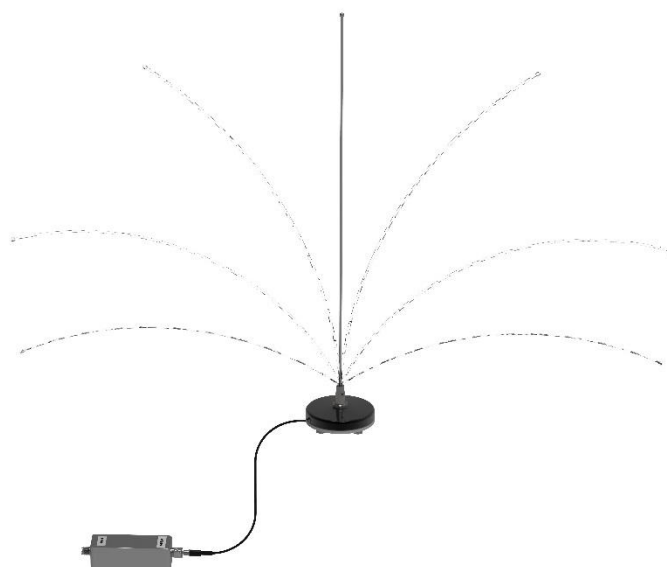
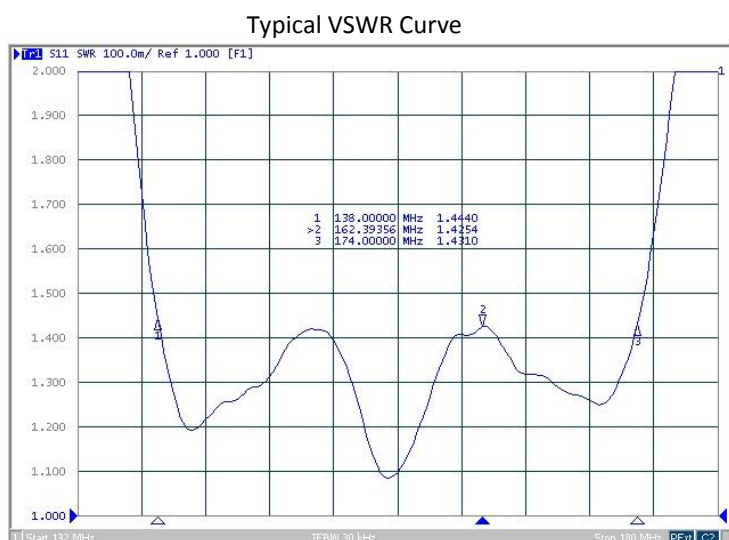
F-33329

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

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

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

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



575-75 Series – No Ground Plane Antenna

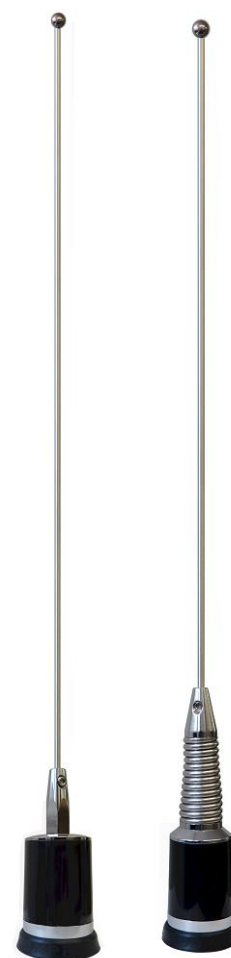
Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

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

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

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

Electrical Specifications	575-75	
Frequency Range, MHz	138-174	
Gain	2.0	
Impedance, Ohms	50	
Power Rating, Watts	75	
Bandwidth, MHz	VHF - 26 @ 2.0:1 VSWR	
Mechanical Specifications	575-75	
Radiator	17-7 PH Stainless Steel	
Base	ABS, spring-loaded contact	
Height, in	52 Maximum	
Mounting	Standard Motorola type 3/4	
Ordering Information	575-75	
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	575-75R	575-75SR



576-75 Series – No Ground Plane Antenna

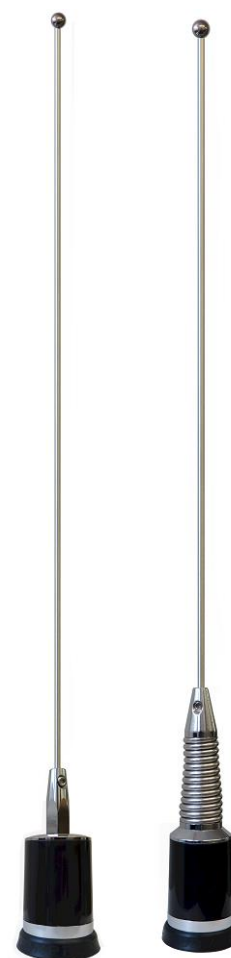
Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

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

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

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

Electrical Specifications	576-75	
Frequency Range, MHz	148-174	
Gain	2.0	
Impedance, Ohms	50	
Power Rating, Watts	150	
Bandwidth, MHz	VHF – 26 @ 1.5:1 VSWR	
Mechanical Specifications	576-75	
Radiator	17-7 PH Stainless Steel	
Base	ABS, spring-loaded contact	
Height, in	52 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	576-75	
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	576-75R	576-75SR



577-75 Series – No Ground Plane Antenna

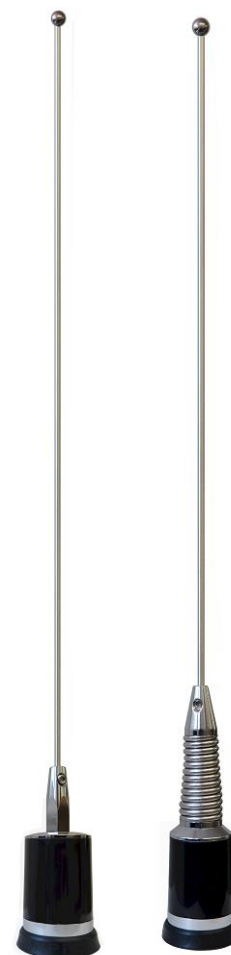
Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth. No ground plane is needed for this antenna.

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

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

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

Electrical Specifications	577-75	
Frequency Range, MHz	136-174	
Gain	2.0	
Impedance, Ohms	50	
Power Rating, Watts	75	
Bandwidth, MHz	VHF – 11 @ 1.5:1 VSWR, 19 MHz @ 2.0:1 VSWR	
Mechanical Specifications	577-75	
Radiator	17-7 PH Stainless Steel	
Base	ABS, spring-loaded contact	
Height, in	52 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	577-75	
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	577-75R	577-75SR



578-75 Series

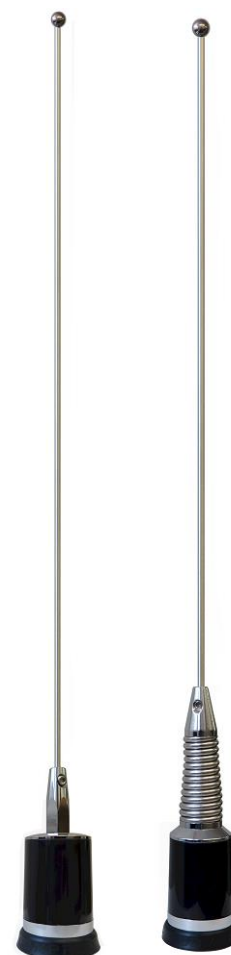
Performance: This broadband 1/2-wave antenna provides 2.0 dBd of gain over its operating bandwidth.

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

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

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

Electrical Specifications	578-75	
Frequency Range, MHz	138-174	
Gain	2.0	
Impedance, Ohms	50	
Power Rating, Watts	100	
Bandwidth/VSWR	36 MHz @ 1.8:1 VSWR	
Mechanical Specifications	578-75	
Radiator	Stainless Steel	
Base	ABS, spring-loaded contact	
Height, in	36.5	
Mounting	Standard Motorola NMO	
Ordering Information	578-75	
Description	Standard	With Spring Mount
Antenna with chrome finish and rubber boot	578-75R	578-75SR



580-75 Series

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

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

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

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

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



583-75 Series

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

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

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

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

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

Electrical Specifications	583-75
Frequency Range, MHz	406-512
Gain	3.0
Impedance, Ohms	50
Power Rating, Watts	200
VSWR	2.0:1
Bandwidth, MHz	20 @ 2.0:1 VSWR
Mechanical Specifications	583-75
Radiator: Chrome A	Tapered S.S. whip., 0.10 dia.
Black B	Tapered S.S. whip., 0.10 dia.
Base	ABS, spring-loaded contact
Height, in	21 Whip
Mounting	Standard Motorola NMO



Ordering Information	583-75			
Frequency	Chrome with Rubber Boot	Chrome with Spring Mt. and Rubber Boot	Black with Rubber Boot	Black with Spring Mt. and Rubber Boot
406-430 MHz	583-75AR*1	583-75ASR*1	583-75BR*1	583-75BSR*1
430-470 MHz	583-75AR*2	583-75ASR*2	583-75BR*2	583-75BSR*2
470-512 MHz	583-75AR*3	583-75ASR*3	583-75BR*3	583-75BSR*3

F-33371

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

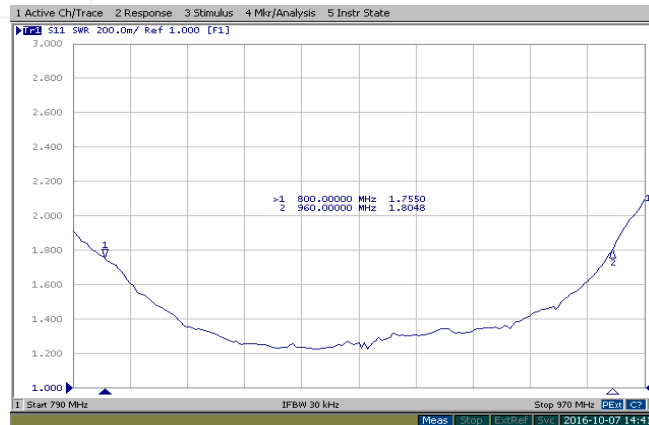
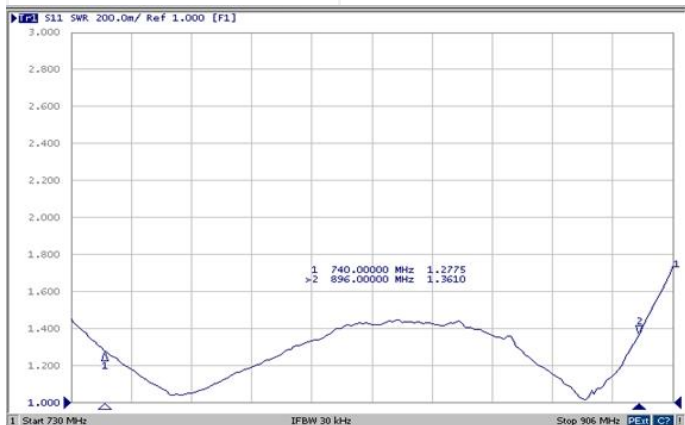
Performance: This broadband antenna provides 2 dB of gain over its operating bandwidth.

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

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

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

Electrical Specifications	
Frequency Range, MHz	740-960
Gain	2 dB
Impedance, Ohms	50
Power Rating, Watts	150
Bandwidth/VSWR	156 MHz, 1.5:1
Mechanical Specifications	
Radiator	Stainless Steel
Base	ABS, spring-loaded contact
Length, in	7
Mounting	Standard Motorola NMO
Ordering Information	
Frequency Range	Model Number
740-896 MHz	F-33371-A
800-960 MHz	F-33371-B



590-75 Series

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

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

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

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

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

Electrical Specifications	590-75	
Frequency Range, MHz	760-960	
Gain	3.0	
Impedance, Ohms	50	
Power Rating, Watts	200	
Bandwidth, MHz	70 @ 2.0:1 VSWR	
Mechanical Specifications	590-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Height, in	14 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	590-75	
Frequency	Chrome	Black
746-806MHz	590-75A*4	590-75B*4
806-866 MHz	590-75A*1	590-75B*1
825-896 MHz	590-75A*2	590-75B*2
896-960 MHz	590-75A*3	590-75B*3



591-75 Series

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

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

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

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

Electrical Specifications	591-75	
Frequency Range, MHz	760-960	
Gain	3.0	
Impedance, Ohms	50	
Power Rating, Watts	200	
Bandwidth, MHz	70 @ 2.0:1 VSWR	
Mechanical Specifications	591-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	Leaf Design	
Height, in	15 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	591-75	
Frequency	Chrome	Black
746-806MHz	591-75A*4	591-75B*4
806-866 MHz	591-75A*1	591-75B*1
825-896 MHz	591-75A*2	591-75B*2
896-960 MHz	591-75A*3	591-75B*3



592-75 Series

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

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

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

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

Electrical Specifications	592-75	
Frequency Range, MHz	760-960	
Gain	3.0	
Impedance, Ohms	50	
Power Rating, Watts	200	
Bandwidth, MHz	70 @ 2.0:1 VSWR	
Mechanical Specifications	592-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Contact	Spring-loaded, gold-plated	
Height, in	16 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	592-75	
Frequency	Chrome	Black
746-806MHz	592-75A*4	592-75B*4
806-866 MHz	592-75A*1	592-75B*1
825-896 MHz	592-75A*2	592-75B*2
896-960 MHz	592-75A*3	592-75B*3



593-75 Series – First Responders Antenna

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

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

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

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

Electrical Specifications	593-75	
Frequency Range, MHz	740-840	
Gain	3.0	
Impedance, Ohms	50	
Power Rating, Watts	200	
VSWR	< 2.0:1	
Mechanical Specifications	593-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Base	ABS, Ultrasonic brass insert	
Contact	Spring-loaded, gold-plated	
Height, in	17	
Mounting	Standard Motorola NMO	
Ordering Information	593-75	
Frequency	Chrome	Black
740-840 MHz	593-75A	593-75B



594-75 Series

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

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

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

Electrical Specifications	594-75	
Frequency Range, MHz	700-850	
Gain	3.0	
Impedance, Ohms	50	
Power Rating, Watts	200	
VSWR	< 2.0:1	
Mechanical Specifications	594-75	
Radiator	Stainless Steel	
Base	ABS	
Contact	Spring-loaded, gold-plated	
Height, in	16	
Mounting	Mini-UHF or TNC connector on 12' cable, Magnetic Mount Base	
Ordering Information	594-75	
Frequency	Chrome	Black
700-850 MHz	594-75A	594-75B



595-75 Series

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

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

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

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

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

Electrical Specifications	595-75	
Frequency Range, MHz	760-970	
Gain	3.5	
Impedance, Ohms	50	
Power Rating, Watts	200	
Bandwidth, MHz	70 @ 2.0:1	
Mechanical Specifications	595-75	
Radiator: Chrome A	Stainless Steel	
Black B	Stainless Steel	
Matching Coil	Silver plated enclosed coil	
Base	ABS, spring-loaded contact	
Contact	Spring-loaded, gold-plated	
Height, in	18 Maximum	
Mounting	Standard Motorola NMO	
Ordering Information	595-75	
Frequency	Chrome	Black
746-806 MHz	595-75A*4	595-75B*4
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: 3 dBd gain is achieved with these premium antennas by featuring a 5/8 wave antenna above a 1/4 wave design with an elevated feed point. This antenna requires no ground plane as a result of its collinear design. The elevated feed design is ideal for the antenna RF signal to clear any nearby obstructions.

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

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

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

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

Electrical Specifications	599-75
Frequency Range, MHz	806-960
Gain	3.0
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth, MHz	70 @ 2.0:1 VSWR
Mechanical Specifications	599-75
Radiator	Black Stainless Steel
Base	Open Coil
Contact	Solid Brass Base
Height, in	23 Maximum
Mounting	Standard Motorola NMO
Finish	Black
Ordering Information	599-75
Frequency	Black Finish
806-866MHz	599-75*1
825-896MHz	599-75*2
896-960MHz	599-75*3



690-75 Series

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

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

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

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

Electrical Specifications	690-75
Frequency Range (Full Band), MHz	806-940 / 1710-1970
Gain	Unity
Impedance, Ohms	50
Power Rating, Watts	200
Bandwidth, MHz	Full Band @ 2.0:1 VSWR
Mechanical Specifications	690-75
Radiator	Stainless Steel
Base	ABS, Ultrasonic Brass Insert
Contact	Gold-plated spring-loaded
Height, in	4
Mounting	Standard Motorola NMO
Ordering Information	690-75
	Black Finish



692-75 Series

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

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

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

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

Electrical Specifications	692-75	
Frequency Range (Full Band), MHz	900-930 / 2400-2500	
Gain	2.0	
Impedance, Ohms	50	
Power Rating, Watts	250	
Bandwidth, MHz	Full Band @ 2.0:1 VSWR	
Mechanical Specifications	692-75	
Base	ABS	
Contact	Gold-plated spring-loaded	
Height, in	3	
Mounting	Standard Motorola NMO	
Ordering Information	692-75	
Finish	White	Black
	692-75W	692-75B



694-75 Series

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

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

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

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

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



696-75 Series

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

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

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

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

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



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

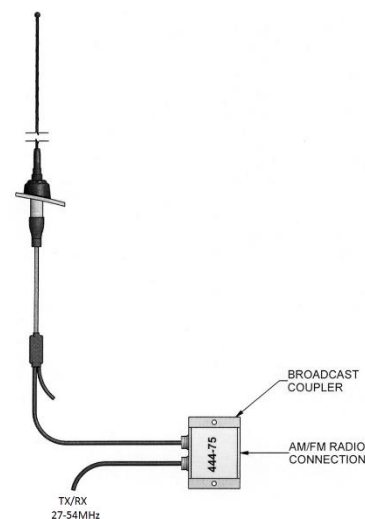
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

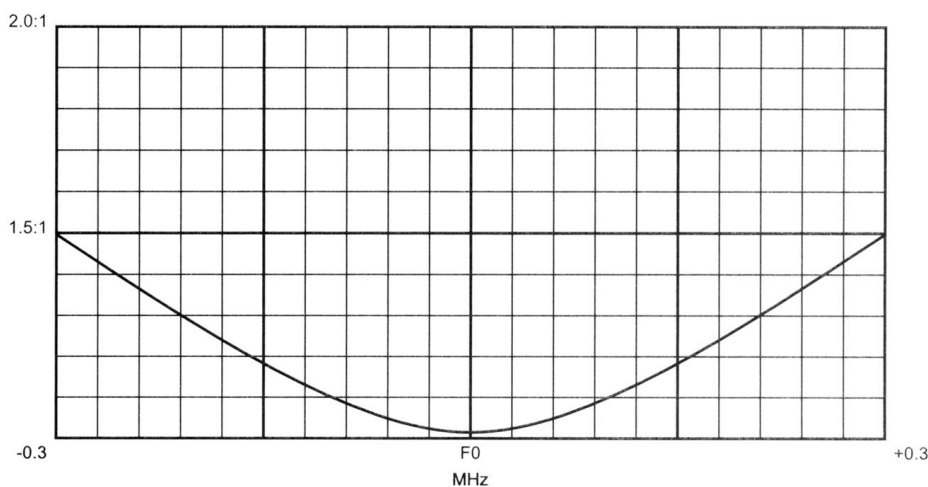
- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	0.60
Power Rating, Watts	150
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	17 ft. RG58/U
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 444-75

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



Typical VSWR vs Frequency curve



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

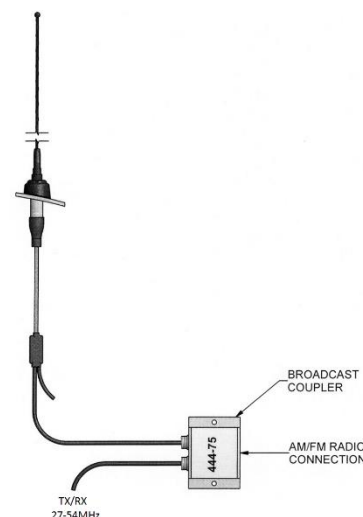
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

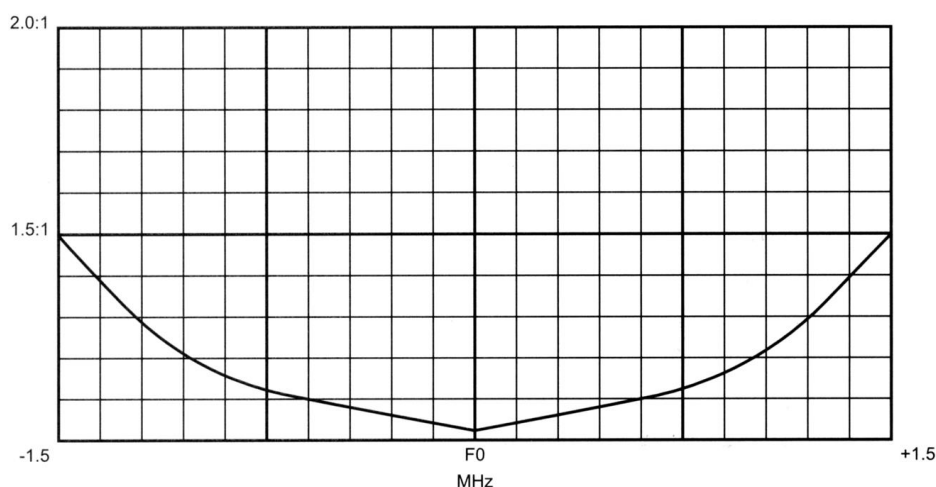
- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	3.0
Power Rating, Watts	150
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	17 ft. RG58/U
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 444-75

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



Typical VSWR vs Frequency curve



Model F-33390

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

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

We are capable of meeting customers' special requirements:

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

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

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



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

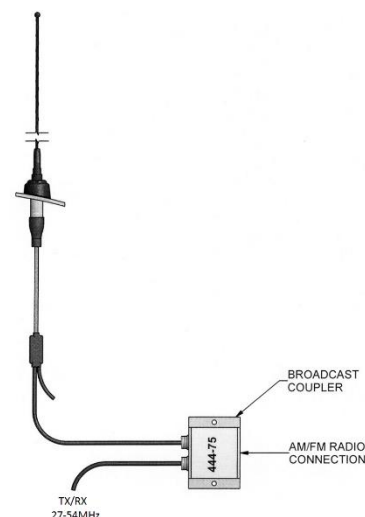
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

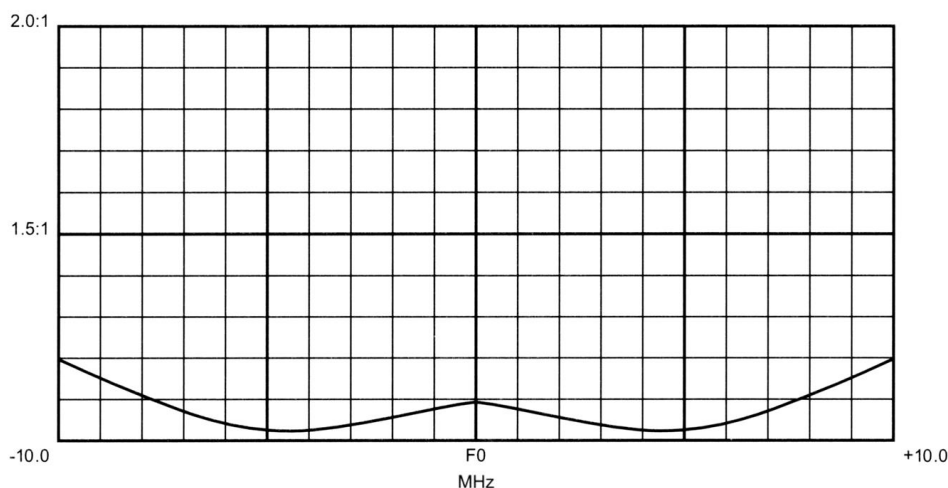
- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	10-20
Power Rating, Watts	150
Radiator	Per OEM antenna
Length, in	Per OEM antenna
Feed Line	17 ft. RG-8X
Connector Options (Customer Specified)	UHF / Mini-UHF / BNC / TNC
Broadcast Coupler (optional)	Model 446-75

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



Typical VSWR vs Frequency curve



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

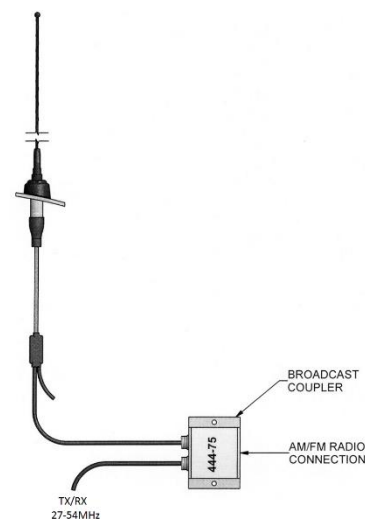
There is an optional broadcast coupler to deliver an antenna that can offer both two-way radio communication in addition to AM/FM receiver functions. The antenna may also be modified to provide multi-band two-way communication.

We are capable of meeting customers' special requirements:

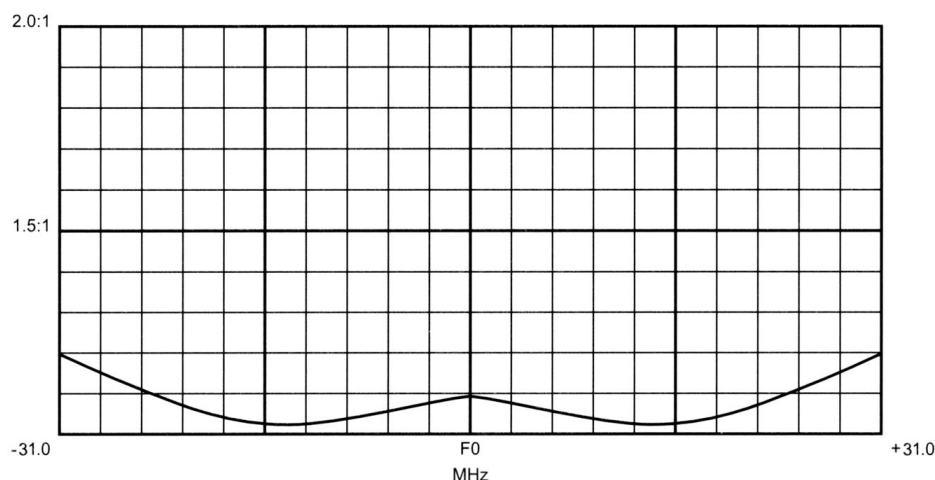
- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

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

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



Typical VSWR vs Frequency curve



DUAL BAND DISGUISED ANTENNAS

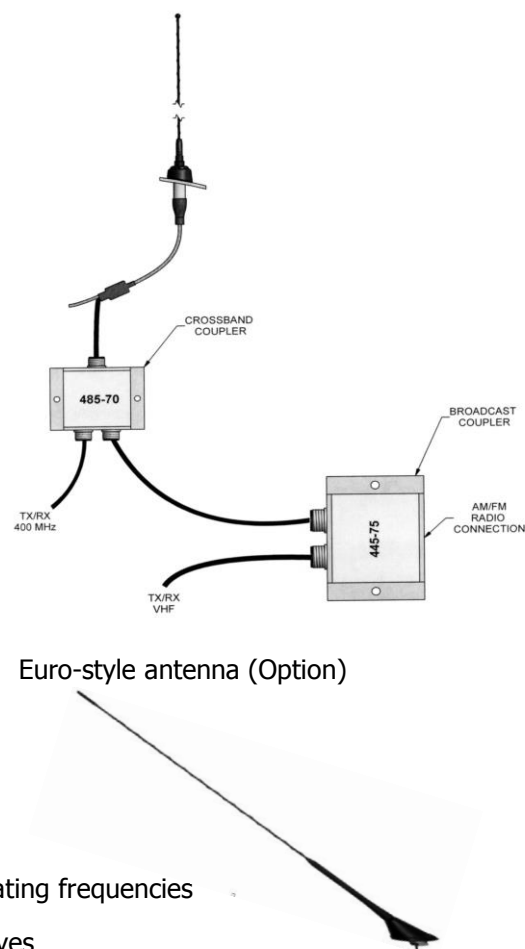
We supply disguised antennas using a standard antenna combined with a tuning circuit integrated with the coaxial cable. Each antenna assembly is individually calibrated to ensure the best performance in a disguised appearance, which will be completely undetectable from the original vehicle's appearance.

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

We are capable of meeting customers' special requirements:

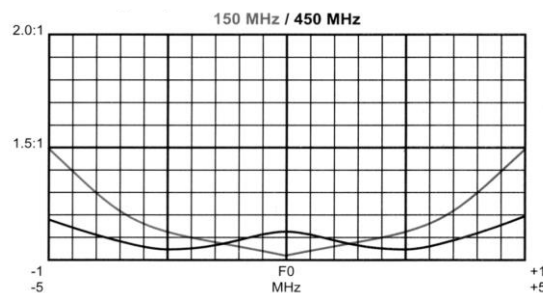
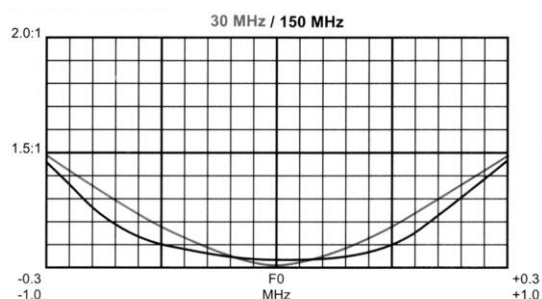
- Two or three separate frequency segments in a given mobile band.
- Cross-channel operation in two mobile bands with one antenna.
- Alternative antennas to an OEM version will be recommended, where required (e.g. Euro-style, or universal mount traditional whip).

Technical Specifications	
Frequency Range, MHz	30-50 and 150-174 150-174 and 406-512 150-174 and 764-960
Nominal Gain	Unity
Bandwidth 1.5:1 VSWR, MHz	30-50MHz: 0.6, 150-174MHz: 2 406-512MHz: 10, 764-960MHz: 63
VSWR	< 1.5:1
Pattern	Omnidirectional
Power Rating, Watts	30-512 MHz: 150, 764-960MHz: 75
Appearance	OEM antenna / Universal
Mounting	Front / Rear Fender
Finish	Black / Chrome
Connector Options (Customer	UHF / Mini-UHF / BNC / TNC
Cable	VHF: 17' RG-58/U UHF: 17' RG-8X 764-960MHz: 5' LMR-240



When ordering, specify Year, Make and Model of the vehicle and both operating frequencies

Typical VSWR vs Frequency curves



Model F-33404

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

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

We are capable of meeting customers' special requirements:

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

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

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



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

Broadcast couplers - allow AM-FM broadcast receiver operation along with normal two-way mobile radio operation.

Crossband couplers - allow mobile radios on two different bands to operate with a single disguised antenna.

Antenna tuners - provide impedance matching and partly retuning the existing antenna to new frequencies.

Broadcast Coupler Specifications

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

Crossband Coupler Specifications

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

Crossband Coupler



Antenna Tuner Specifications

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

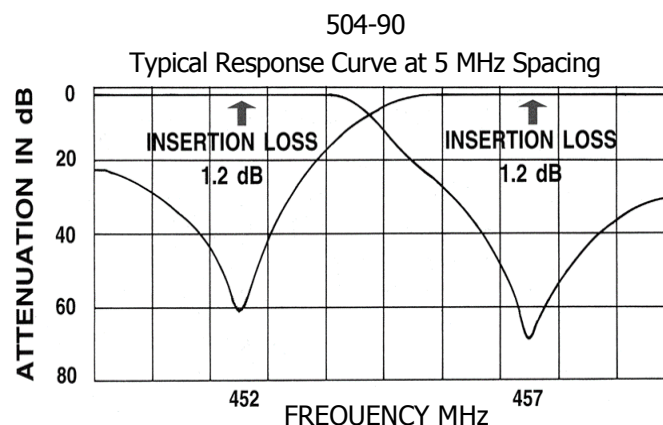
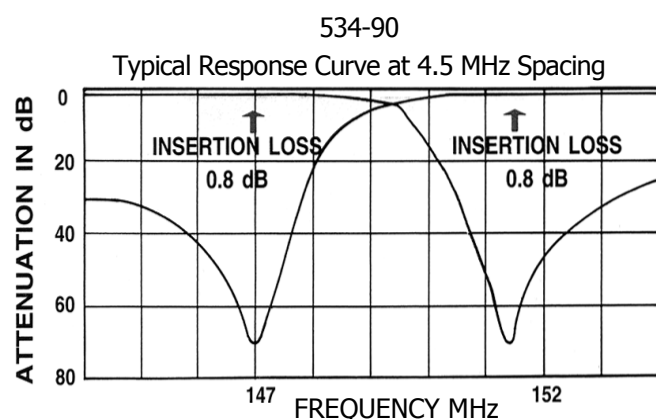
4 Cavity Standard Version

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

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

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

Electrical Specifications	534-90	504-90	
Frequency Range, MHz	144-155 / 150-165 / 160-174	406-435 / 430-470	
Frequency Spacing Min. MHz	4.5	5.0	10.0
Continuous Power Rating, Watts	50	50	50
Insertion Loss, dB: TX to Antenna	0.8	1.2	0.8
Insertion Loss, dB: RX to Antenna	0.8	1.2	0.8
Isolation, dB: TX noise suppression at RX frequency	60	50	60
Isolation, dB: TX isolation at TX frequency	60	50	60
Maximum VSWR	1.5:1	1.5:1	
Impedance, Ohms	50	50	
Connector Type, Female	BNC	BNC	
Temperature °C	-40 to +60	-40 to +60	
Mechanical Specifications	534-90	504-90	
Dimensions H x W x D, in. (mm)	1-1/4 x 4-1/8 x 7-5/8 (31.8 x 105 x 194)	1-1/4 x 4-1/8 x 8-3/4 (31.8 x 105 x 222)	
Weight, lbs (kg)	1.5 (0.7)	2 (0.9)	



6 Cavity Standard Version

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

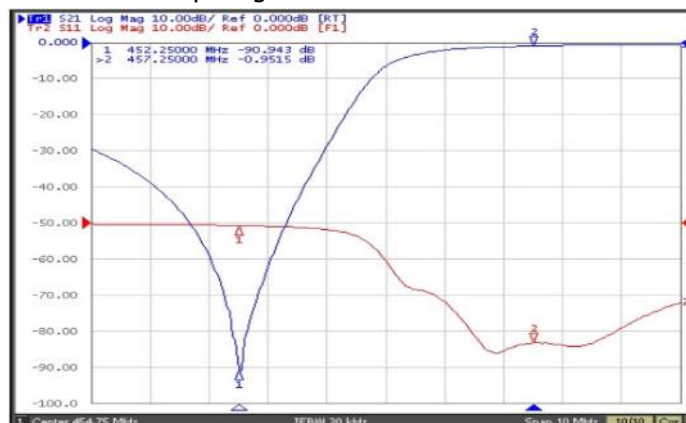
All units are adjustable in the field by qualified personnel and rated at 50 watts continuous duty with a maximum VSWR of 1.5: 1 over the entire tuning range.

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

Electrical Specifications	536-90	506-90	
Frequency Range, MHz	144-155 / 150-165 / 160-174	406-435 / 430-470	
Frequency Spacing Min. MHz	4.5	5.0	10.0
Continuous Power Rating, Watts	50	50	50
Insertion Loss, dB: TX to Antenna	1.2	1.4	1.2
Insertion Loss, dB: RX to Antenna	1.2	1.4	1.2
Isolation, dB: TX noise suppression at RX frequency	80	75	80
Isolation, dB: TX isolation at TX frequency	80	75	80
Maximum VSWR	1.5:1	1.5:1	
Impedance, Ohms	50	50	
Connector Type, Female	BNC	BNC	
Temperature °C	-40 to +60	-40 to +60	
Mechanical Specifications	536-90	506-90	
Dimensions H x W x D, in. (mm)	1-1/4 x 6-3/16 x 7-5/8 (31.8 x 157 x 222)	1-1/4 x 6-3/16 x 7-5/8 (31.8 x 157 x 222)	
Weight, lbs (kg)	2 (0.9)	3.5 (1.7)	



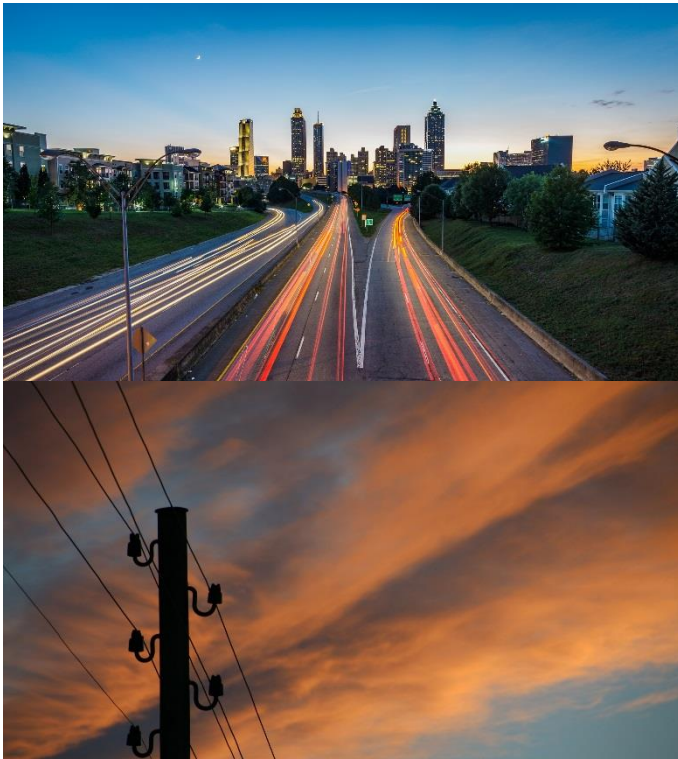
506-90 Typical Response Curves at 5 MHz Spacing





Our Mission:

As a market leader in RF technology, we are committed to delivering best in-class products and services to Public Safety, Utility, Transportation, Defense and Government organizations around the world.



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