

## Lowband Quarter Wave Antennas

The MLB lowband antennas are a popular choice for State Patrol, Land Management and serious CB applications. They provide superior performance for a variety of lowband applications.

### Features

- The matching coil is supported by a low-loss coil form to withstand the heaviest shocks (all models, except MLB6600S)
- Durable, attractive housings designed to deter moisture ingress for long lasting, reliable operation.
- Mates with all 1-1/8"-18 thread mounts, including 3/4" mounts

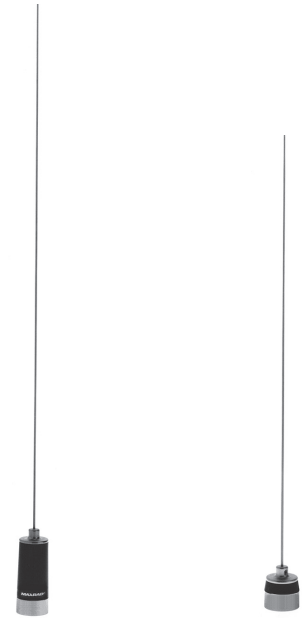
### Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain
MLB2700(S)	27-31 MHz	Field Tunable within specified range	Unity
MLBDC2700(S)**	27-31 MHz	Field Tunable within specified range	Unity
MLB3000(S)	30-35 MHz	Field Tunable within specified range	Unity
MLBDC3000(S)**	30-35 MHz	Field Tunable within specified range	Unity
MLBDC3400(S)**	34-37 MHz	Field Tunable within specified range	Unity
MLB3400(S)	34-40 MHz	Field Tunable within specified range	Unity
MLBDC3700(S)**	37-40 MHz	Field Tunable within specified range	Unity
MLB4000(S)	40-47 MHz	Field Tunable within specified range	Unity
MLBDC4000(S)**	40-47 MHz	Field Tunable within specified range	Unity
MLBDC4500(S)**	45-48 MHz	Field Tunable within specified range	Unity
MLBDC4700(S)**	47-50 MHz	Field Tunable within specified range	Unity
MLB4700(S)	47-54 MHz	Field Tunable within specified range	Unity
MLB6600(S)	66-132 MHz	Field Tunable within specified range	Unity

### Mechanical Specifications

Model	Antenna Height at lowest frequency
All models	Approximately 52"

\*Suffix "S" indicates spring  
 \*\* This model is DC grounded



MLB4700

MLB6600



### Technical Data

<b>Maximum Power:</b> 200 watts 500 watts (MLBDC models)
<b>Nominal Impedance:</b> 50 ohm
<b>VSWR at Resonance:</b> < 1.5:1
<b>Radiator Material:</b> .100" - .062" diameter tapered stainless steel
<b>Optional Spring:</b> Stainless steel
<b>Loading Coil:</b> Tinned copper wire wound on a low-loss coil form (All models, except MLB6600S)
<b>Base Coil Housing:</b> Molded polymer with copper, nickel and chrome plated bushing
<b>Lightening Protection:</b> DC grounded (MLBDC models only)
<b>Antenna Type:</b> Base loaded tapped 1/4 wave (MLBDC models) Full length 1/4 wave (MLB6600S) Base loaded 1/4 wave (MLB models)

## Lowband Full Length Quarter Wave Antenna

This is a rugged full length Quarter Wave for lowband applications. It features a high quality stainless steel shock spring.



MLB3001

### Features

- The ultimate in durability for lowband applications
- Stainless steel construction
- 96" tapered stainless steel whip
- Adjustable, die cast zinc mount

### Antenna Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain
MLB3001	30-54 MHz	Field Tunable	Unity



### Mechanical Specifications

Model	Antenna Height at lowest frequency
MLB3001	Approximately 105"

### Technical Data

<b>Maximum Power:</b> 250 watts
<b>Nominal Impedance:</b> 50 ohm
<b>VSWR at Resonance:</b> < 1.5:1
<b>Radiator Material:</b> .200" - .100" diameter tapered stainless steel
<b>Spring:</b> Stainless steel
<b>Cable Options:</b> MK20 (20' cable) complete with spade lugs installed, and loose solder on PL259 connector.
<b>Mounting Base:</b> 3-1/2" diameter
<b>Antenna Type:</b> Full length 1/4 wave

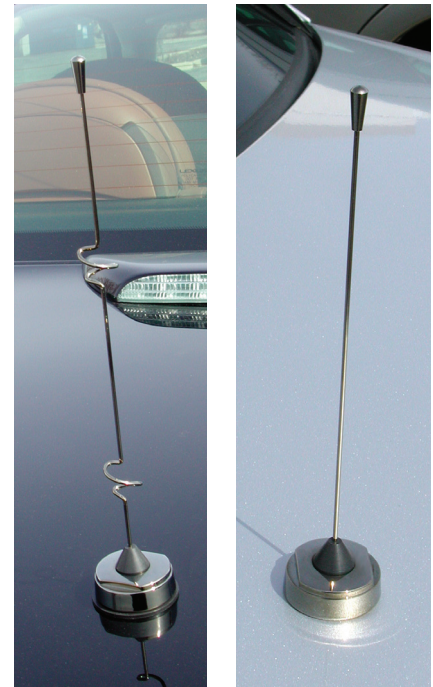
\*Spring assembly included

## PCTCN Chrome Nut Antennas

Our new high performance chrome nut antenna series offers a durable, super flexible design and reinforced brass button contact for maximum durability against external shock or limited vehicle height clearance. Wideband performance, attractive “Titanium gray” reflective finish and sleek drop shape rod tip, combined with market competitive prices, makes this new series one of the best values on the marketplace.

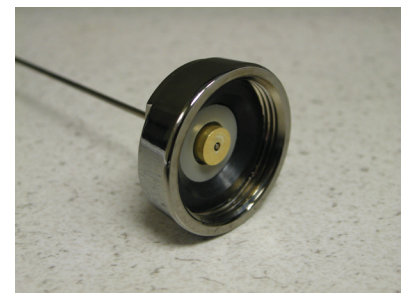
### Features

- Optimized bandwidth performance - Only 12 models required to cover all frequencies between 118 MHz and 2.5 GHz
- High-Tech “Titanium gray” reflective plating - Closely mimics the color of the metallic surface on which the antenna is installed, nicely complementing the appearance of public safety, livery and service vehicles
- Gold plated, brass contact button interface - Provides optimized electrical performance, corrosion resistance and maximum 100lb pull force resistance for long lasting, trouble-free operation
- Tear drop style rod tip - Less prone to detachment due to impact (factory tuned models only)
- Heavy duty zinc die cast base for maximum durability and corrosion resistance under extreme weather conditions
- Mates with all 1-1/8”-18 thread mounts, including 3/4” mounts for simple installation and/or replacement.



### Technical Data

<b>Maximum Power:</b> 150 watts
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 1.5:1 <b>VSWR across the range of specified frequencies:</b> < 2.0:1
<b>Radiator Material:</b> .062” diameter 17-7ph stainless steel, “Titanium gray” finish
<b>Mount Nut:</b> zinc die cast; “Titanium” finish
<b>Antenna Type:</b> 1/4 Wave (Unity gain models) 5/8 Wave over a 1/4 Wave (3dB gain models) Collinear (4.5 dB model)



## Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain	Replacement for:
PCTCNMFT	118-940 MHz	Field Tunable	Unity	(B)MFT120
PCTCN1520	152-162 MHz	157 MHz	Unity	BMHB1520, MHB1520
PCTCN1620	162-174 MHz	167 MHz	Unity	MHB1620
PCTCN3840	380-430 MHz	405 MHz	Unity	(B)MUF3800, MUF4060
PCTCN4347	430-470 MHz	450 MHz	Unity	MUF4300, MUF4500
PCTCN4750	470-512 MHz	491 MHz	Unity	MUF4700, MUF4900
PCTCN7080	740-870 MHz	805 MHz	Unity	MUF7000
PCTCN8090	806-960 MHz	883 MHz	Unity	(B)MUF8000, (B)MUF9000
PCTCN8063	806-866 MHz	836 MHz	3 dB	(B)MUF8063
PCTCN8253	824-896 MHz	860 MHz	3 dB	(B)MUF8253
PCTCN8963	896-940 MHz	918 MHz	3 dB	MUF8963
PCTCN24005	2.4-2.5 GHz	2.45 GHz	4.5 dB	MUF24005

## Mechanical Specifications

Model	Antenna Height at lowest frequency
PCTCNMFT	Approximately 24.0"
PCTCN1520	Approximately 21.6"
PCTCN1620	Approximately 21.6"
PCTCN3840	Approximately 7.38"
PCTCN4347	Approximately 6.2"
PCTCN4750	Approximately 5.6"
PCTCN7080	Approximately 3.3"
PCTCN8090	Approximately 3.0"
PCTCN8063	Approximately 14.5"
PCTCN8253	Approximately 14.0"
PCTCN8963	Approximately 12.0"
PCTCN24005	Approximately 8.75"

## VHF and UHF Wideband Antennas - Field Tunable

These field tune antennas address equipment inter-operability challenges by providing superior bandwidth coverage without sacrificing antenna performance. All models are built to withstand high vibration conditions.

### Features

- Outstanding bandwidth performance
- Rugged compact design ideal for high vibration conditions
- Mate with all 1-1/8" -18 thread mounts, including 3/4" mounts
- Select models feature a removable whip design for fine tuning or replacement.
- MWV1322HD(S) operates without a ground plane without compromising VSWR performance.

### Electrical Specifications

Model	Frequency Range	Bandwidth	Gain
MWV1322(S)*	132-174 MHz	26 MHz	2.4 dB with a ground plane (Unity without a ground plane)
MWV1322HD(S)*	132-174 MHz	26 MHz	2.4 dB with a ground plane (Unity without a ground plane)
MWB1320**	132-512 MHz	24 MHz	Unity
ASPR7495	150-512 MHz, field tunable	24 MHz (406-512 MHz)	Unity
ASPR795	108-512 MHz, field tunable	100 MHz (406-512 MHz)	Unity
ASPC201L***	108-512 MHz, field tunable	100 MHz (406-512 MHz)	Unity
ASPE7495****	150-512 MHz, field tunable	100 MHz (406-512 MHz)	Unity

### Mechanical Specifications

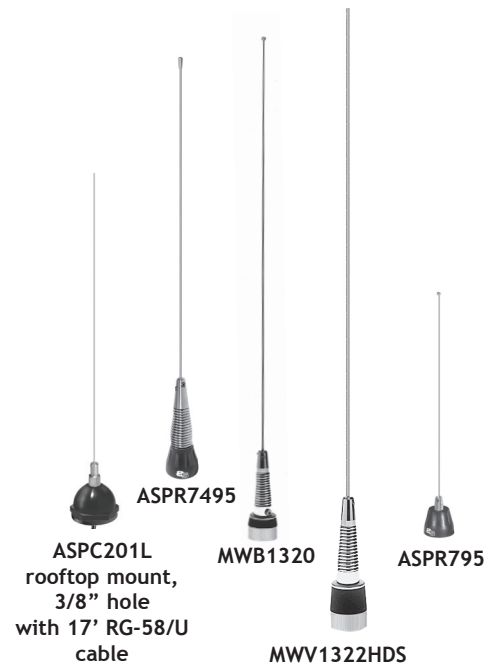
Model	Whip Length at lowest frequency
MWV1322(S)	Approximately 48"
MWV1322HD(S)	Approximately 48"
MWB1320	Approximately 22"
ASPR7495	16-3/8"
ASPR795	26"
ASPC201L	26"
ASPE7495	16-3/8"

Suffix "S" indicates spring option.

\*\*Model MWB1320 comes with spring and requires a ground plane.

\*\*\* Model ASPC201L includes 17 ft RG-58/U cable and UHF male connector.

\*\*\*\*Model includes elastomer spring.



### Technical Data

<b>Maximum Power:</b> 150 watts 100 watts (ASPC201L)
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 1.5:1 (ASPR795 and ASPC201L) < 2.0:1 (all other models)
<b>Radiator Material:</b> 0.125" diameter, 17-7PH stainless steel (Models MWV1322HD(S) and ASPR7495 only) 0.072" diameter, 17-7PH stainless (ASPC201L) 0.046" diameter, stainless steel (ASPR795) .100"-.062" diameter tapered stainless steel (all other models)
<b>Spring Material (if available with the antenna):</b> Stainless steel
<b>Base and Fittings:</b> Aluminum, plated steel and brass (ASPR795)
<b>Base Coil Housing:</b> Molded polymer jacket with copper, nickel and chrome plated bushing
<b>Antenna Type:</b> Base loaded 1/2 wave (MWV models) 1/4 Wave (all models)
<b>Mounting Method:</b> 1-1/8" -18 thread mobile mounts, including 3/4" hole mounts (all models except ASPC201L) 3/8" hole snap-in mounts (ASPC201L only)