

## Heavy Duty Low Profile Base Gain Antennas

These antennas feature a heavy-duty low profile base with tapered loading coil jacket, chrome plated brass fittings and an optional heavy-duty stainless steel spring. Available with either an open coil rod or our “quiet” closed coil rod design.

### Features

- Low profile double-sealed housing for maximum weather-proofing
- Plated fittings for superior performance and durability in the toughest environments
- Mates with all 1-1/8”-18 thread mounts, including 3/4” mounts

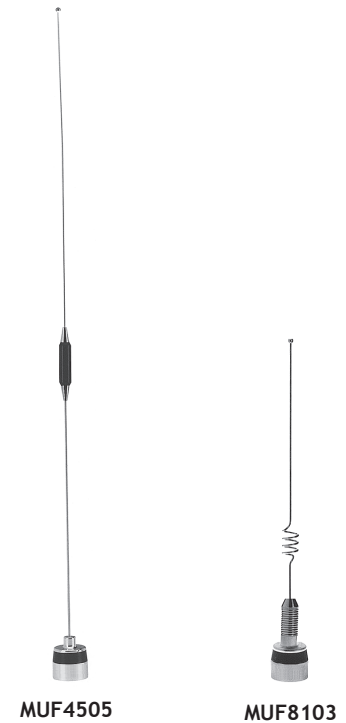
### Electrical Specifications

Model	Frequency Range	Factory Tuned Frequency	Gain	Rod/Coil Type
MUF3505(S)	350-400 MHz	Antennas are field tunable within the specified frequency range.	5 dB	Collinear/Closed
MUF4065(S)	406-430 MHz		5 dB	Collinear/Closed
MUF4305(S)	430-450 MHz		5 dB	Collinear / Closed
MUF4505(S)	450-470 MHz		5 dB	Collinear/Closed
MUF4705(S)	470-490 MHz		5 dB	Collinear/Closed
MUF4905(S)	490-512 MHz		5 dB	Collinear/Closed
MUF8105(S)	806-866 MHz	815 MHz	5 dB	Trilinear/Open
MUF8005(S)	806-866 MHz	815 MHz	5 dB	Trilinear/Closed
MUF8103(S)	806-896 MHz	815 MHz	3 dB	Collinear/Open
MUF8003(S)	806-896 MHz	815 MHz	3 dB	Collinear/Closed
MUF8325(S)	825-896 MHz	835 MHz	5 dB	Trilinear/Closed
MUF9035(S)	896-940 MHz	898 MHz	5 dB	Trilinear/Closed

### Mechanical Specifications

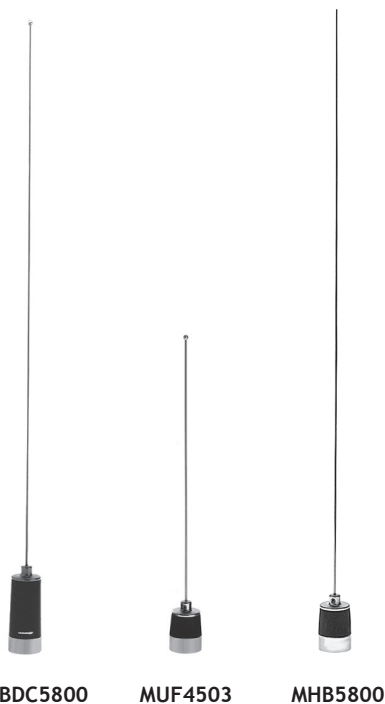
Model	Antenna Length at lowest frequency
MUF3505(S)	Approximately 32”
MUF4065(S)	Approximately 32”
MUF4305(S)	Approximately 32”
MUF4505(S)	Approximately 32”
MUF4705(S)	Approximately 32”
MUF4905(S)	Approximately 32”
MUF8105(S)	Approximately 25”
MUF8005(S)	Approximately 25”
MUF8103(S)	Approximately 15.5”
MUF8003(S)	Approximately 15.5”
MUF8325(S)	Approximately 25”
MUF9035(S)	Approximately 25”

Suffix “S” indicates spring option.



### Technical Data

<b>Maximum Power:</b> 200 watts
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 1.5:1
<b>Radiator Material:</b> .100” diameter stainless steel
<b>Optional Spring:</b> Stainless steel
<b>Phasing Coil Housing:</b> Low profile molded polymer jacket with copper, nickel and chrome plated bushing
<b>Base Coil Housing:</b> Low profile molded polymer with copper, nickel and chrome plated bushing
<b>Antenna Type:</b> 3 dB: 5/8 wave over a 1/4 wave 5 dB: 5/8 wave over a 1/4 wave



**Technical Data**

<b>Maximum Power:</b> 200 watts
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 1.5:1
<b>Radiator Material:</b> .100"-.062" diameter stainless steel
<b>Grounding:</b> DC Grounded (MHBDC model only)
<b>Optional Spring:</b> Stainless steel
<b>Base Coil Housing:</b> Molded polymer jacket with copper, nickel and chrome plated bushing
<b>Antenna Type:</b> Base loaded 5/8 Wave

## Base Loaded Field Tunable 3dB Gain Antennas

These 5/8 Wave antennas utilize a chrome coil design with the enhancement of a heavy duty tapered rod for maximum durability in tough environments.

**Features**

- The matching coil is supported by a low loss coil for superior performance in heavy shick applications
- The tapered coil housing design enhances appearance and prevents moisture from entering the load
- Mates with all 1-1/8" -18 thread mounts, including 3/4" mounts

**Electrical Specifications**

Model	Frequency Range	Factory Tuned Frequency	Gain
MHB5800132(S)	132-174 MHz	Field tunable	3 dB
MHBDC5800(S)**	144-174 MHz	Field tunable	3 dB
MHB5800(S)	144-174 MHz	Field tunable	3 dB
MUF4503(S)	450-470 MHz	Field tunable	3 dB

**Mechanical Specifications**

Model	Antenna Height at lowest frequency
MHB5800132(S)	Approximately 58"
MHBDC5800(S)**	Approximately 52"
MHB5800(S)	Approximately 52"
MUF4503(S)	Approximately 16"

Suffix "S" indicates spring and is not a retrofit option, please indicate at time of order.  
 \*\* MHBDC5800(S) has a 5 MHz bandwidth @ 1.5:1 VSWR. This is a DC grounded antenna

## Mosaic® Vibration Resistant Collinear Antennas

The Mosaic® high performance collinear antennas provide exceptional coverage of VHF and UHF frequencies with 5 dB or 3 dB gain performance. They feature a black UV stabilized ABS base that resists chalking and provides long lasting operation. Patented DURA-FLEX® elastomer spring eliminates duplex system noise caused by semi-conductive deposits found in traditional coil springs. A springless model is also available.

### Features

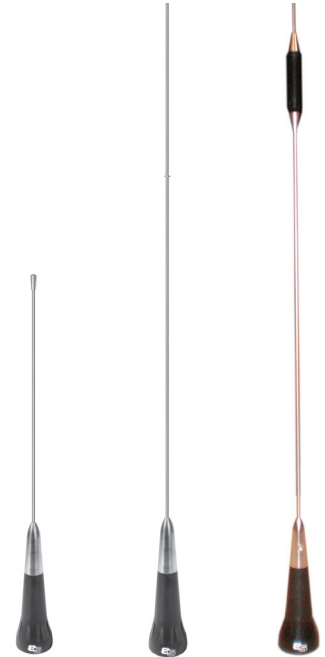
- Enhanced Performance - all brass inserts eliminate interference caused by dissimilar metals
- Long Life - black UV stabilized ABS base resists chalking and provides long lasting operation
- Noise-Free - unique patented DURA-FLEX® elastomer spring eliminates duplex system noise caused by semi-conductive deposits found in traditional metal coil springs
- System Oriented - compatible with 1-1/8” -18 thread mobile mounts, including 3/4” hole mounts for easy antenna replacement or upgrade

### Antenna Electrical Specifications

Model	Frequency Range	Gain
ASP7455	138-174 MHz	3 dB
ASPH7455	210-230 MHz	3 dB
ASP76551	445-470 MHz	5 dB
ASP7795	445-470 MHz	3 dB
ASPB76552	470-494 MHz	5 dB

### Mechanical Specifications

Model	Antenna Height
ASP7455	54” max. including spring and coil
ASPH7455	Approximately 27”
ASP76551	Approximately 34”
ASP7795	Approximately 15”
ASPB76552	Approximately 33”



ASP7795 ASPH7455 ASP76551  
U.S. Patent No. 4,625,213



### Technical Data

<b>Maximum Power:</b> 150 watts
<b>Polarization:</b> Vertical
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR at Resonance:</b> < 1.5:1 with a DURA-FLEX® spring
<b>Radiator Material:</b> 0.12” diameter, 17-7PH stainless steel (5 dB models) .100”-.062” diameter, 17-7PH stainless steel (3 dB models)
<b>Spring Material:</b> DURA-FLEX® elastomer (if included)
<b>Transformer:</b> 14 AWG copper clad steel wire, low loss coil, waterproof housing (ASPH7455)
<b>Base Coil:</b> 14 AWG copper clad steel wire, waterproof housing
<b>Phasing Coil:</b> 14 AWG copper wire, encapsulated with radiators
<b>Base and Fittings:</b> All brass
<b>Mount Method:</b> Compatible with 1-1/8” -18 thread mobile mounts, including 3/4” hole mounts