

## 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
ASP7795LS**	445-470 MHz	3 dB
ASPB76552	470-494 MHz	5 dB
ASPF7795	485-505 MHz	3 dB
ASPC76553	494-512 MHz	5 dB

### Mechanical Specifications

Model	Antenna Height
ASP7455	54" max. including spring and coil
ASPH7455	27"
ASP76551	Approximately 34"
ASP7795	Approximately 15"
ASP7795LS**	Approximately 16"
ASPB76552	Approximately 33"
ASPF7795	Approximately 13"
ASPC76553	Approximately 33"

\*\* This model does not include a spring



### 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 < 1.7:1 (ASPC76553) < 2.0:1 (model ASP7795LS)
<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 16 AWG silver, plated brass (ASPC76553)
<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