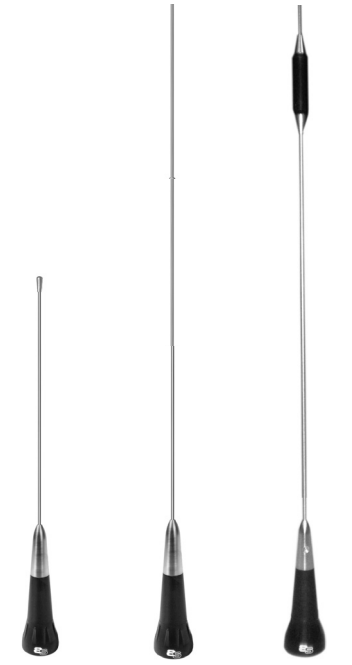
Molded Base Antennas with Rubber “Elastomer” Spring



ASP7795 ASPH7455 ASP76551

U.S.Patent No. 4,625,213

Mosaic® Vibration Resistant Collinear Antennas

PCTEL’s 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

Technical Data

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

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

Mechanical Specifications

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

PCTEL®