

Wide Spectrum Multiband Antenna

The PCTWLSMR wide spectrum multiband antenna supports multiband radio technology to provide full interoperability among emergency management and response personnel, regardless of frequency band used. It provides outstanding coverage of VHF and UHF frequencies, including 700 MHz public safety, 800 MHz and 900 MHz frequencies in a ready-to-install, no tune design. Its multiband elements are housed in a rugged, impact-resistant housing for maximum durability and its base is designed to interface with standard NMO mobile mounts to facilitate existing installation upgrades on public safety vehicles.



PCTWLSMR



PCTMAG-HD
(sold separately)

Features

- No tune, multiband coverage of full spectrum VHF, TETRA/UHF and 700/800/900 MHz frequencies
- Rugged construction for long lasting, reliable emergency response support
- IP67 compliant design, when installed on the roof or trunk of a vehicle
- NMO compatible interface for easy installation or upgrade
- Stainless steel spring for maximum impact shock absorption
- Excellent VSWR performance across frequencies

Electrical Specifications

Frequency Range	Bandwidth	Gain* (Typical)	VSWR** (Typical)
136-174 MHz	38 MHz	Unity	< 2.0:1
380-520 MHz	140 MHz		
698-960 MHz	262 MHz		

Other Technical Data

Maximum Power: 160 watts
Nominal Impedance: 50 ohms
Rod Material: .100-inch diameter black e-coated 17-7PH stainless steel
Spring: Black chrome
Base Coil Housing: Black ABS plastic with zinc diecast internal bushing
Radiator Housing: Black Aluminum
Mounting Method: Interfaces with 1-1/8"-18 threaded mounts, including NMO 3/4" hole mounts. For temporary installations, PCTMAG-HD extra strength magnetic mount is required (sold separately).

Mechanical Specifications

Approximate Dimensions	Weight	Color
2 OD x 22 H in (5.08 x 55.88 cm) (including whip)	1.46 lbs (0.66 kg)	Black

Environmental Specifications

Wind Loading @ 125 mph	Operating/Storage Temperature	Ingress Protection
12.8 lbs (5.8 kg)	-40°F to +185°F (-40°C to +85°C)	IP67***

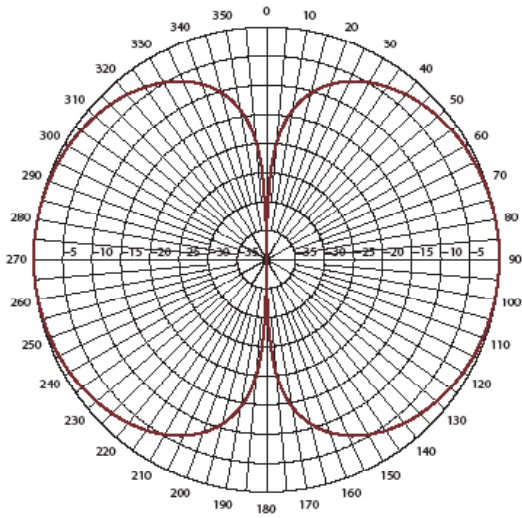
Mount Specifications

Part Number	Diameter	Color	Magnet Pull Force	Cable	Connector
PCTMAG-HD	3.25 in (8.25 cm)	Black	80-100 lbs (36.3-45.4 kg)	12 ft Pro-Flex Plus 195	Attached TNC Male

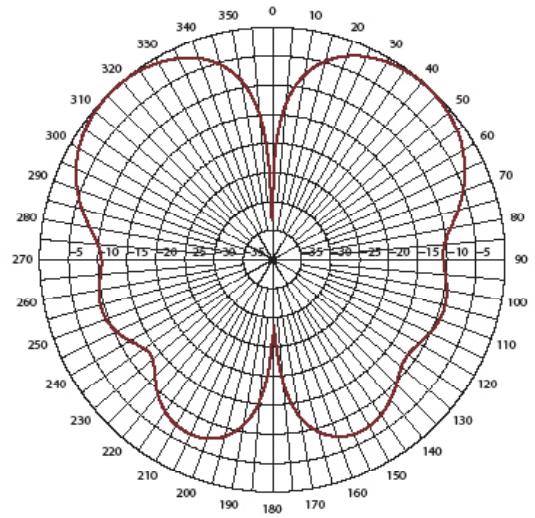


* Measured on a 4-foot diameter ground plane. Gain value is measured at the base of the antenna (no cable/connector loss included).
 ** Measured on a standard NMO mount with 17 feet of RG-58A/U cable. Maximum VSWR 2.5:1.
 ***When properly installed on a vehicle's rooftop or trunk surface.

150 MHz Elevation Pattern



485 MHz Elevation Pattern



762 MHz Elevation Pattern

