em wave inc.

Product Data Sheet



EM-M10014-GPI

VHF 2dB Ground Plane Independent Antenna
144-174 MHz

- High Performance, Broadband Impedance Match
- Optimized VSWR for Maximum “No Ground Plane” Efficiency
- Black Chrome Finish
- O-ring Seal for IP67 Rated Waterproof Construction
- Durable ASA Base with TPU Molded Dust Seal and Grip Ring

Electrical Specifications

Frequency Band	144-174 MHz (tunable range)
Operational Bandwidth	15-20 MHz (frequency dependent)
VSWR	<1.2:1 at center frequency
	<2:1 across operational bandwidth
Impedance	50Ω
Gain	2 dBi (no ground plane installation)
Power Rating	150 W
Polarization	Linear, Vertical
E-Plane	70 Degrees, Nominal
H-Plane	Omnidirectional

Mechanical Specifications

Overall Length (max)	45.75 in. (1.16 m), max. @144 MHz
Whip Material, Finish	17-7 SS, Black Chrome
Base Material	ASA w/TPU over mold grip ring
Spring Material	17-7 SS, Black Chrome
Mounting Application	¾ inch thru-hole NMO Mount
NMO Cable Assembly & Connector	Sold separately
Operating Temperature	-40° to 85° C
Corrosion	Salt Fog
Humidity	95%

Specifications subject to change without notification.

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