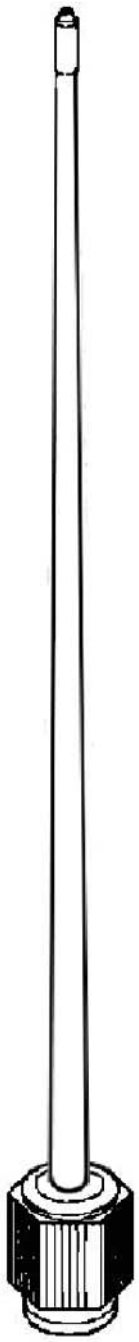
MPS-10M/1A

HF Omni Directional Broadband Whip Antenna



PRODUCT DESCRIPTION

Model Number: **MPS-10M/1A**
Part Number: **1500-0452-201**

- Air Cooled Balun Transformer
- 1 kW Power Handling Capability
- Powder Coated for Maximum Corrosion Protection

ELECTRICAL SPECIFICATIONS

Frequency Range:	2-30 MHz
Power Handling:	1 kW avg
Application:	Transmitting and Receiving
Polarization:	Vertical
Azimuth Beamwidth:	Omnidirectional
Customer Input:	Type N Female
VSWR:	2:1 nominal, 3:1 max
Input Impedance:	50 Ohms
Static Charges:	Element at DC ground to prevent the accumulation of static charges
Matrix / Maintenance:	RF Input at DC ground to ensure compatibility

MECHANICAL SPECIFICATIONS

Height:	457 inches
Diameter:	18 inches
Base Flange:	18 inches diameter
Hole Pattern:	8 holes and 15.25 inch diameter
Hole Diameter:	0.56 inch diameter
Weight:	188 lbs
Crated Weight:	358 lbs

ENVIRONMENTAL SPECIFICATIONS

Temperature:	-54° to 65° C
Dust:	Test per MIL-STD-810 Method 510.2
Shock:	MIL-STD-901C, Grade A, Class 1
Vibration:	MIL-STD-167-1, Type I
Humidity:	0 to 100 %
Wind:	100 knots
Ice:	4.5 PSF On All Exposed Surfaces
Salt Fog:	Withstands 100 Hour Test of 20% @ 65° C

CONSTRUCTION

Antenna Base Unit:	Welded Aluminum; All exposed surfaces powder coated for max corrosion protection
Radiating Element:	Multiple copper wires embedded in fiberglass whip
Radome:	Epoxy Fiberglass, painted with SW Polane paint, Haze Grey

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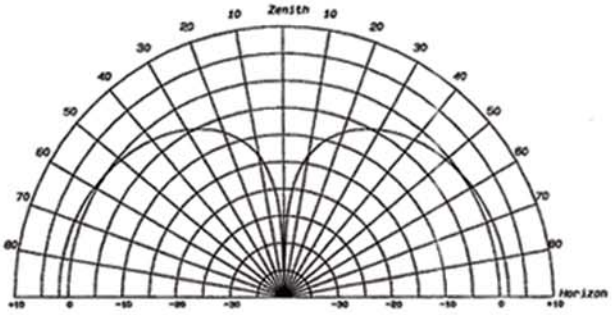
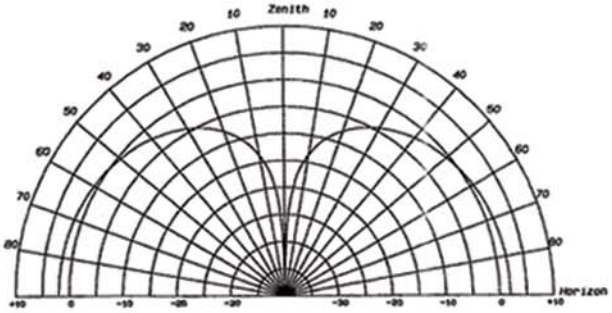
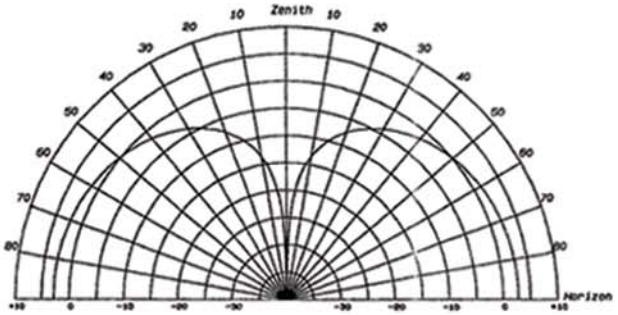


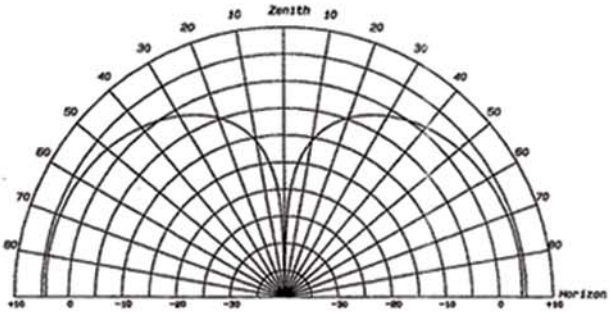
Elevation Pattern - 2 MHz Vertical Polarization
Gain: 1.69 dBi without AMU



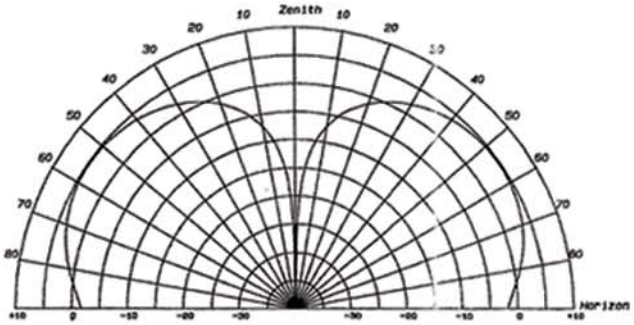
Elevation Pattern - 5.16 MHz Vertical Polarization
Gain: 1.92 dBi without AMU



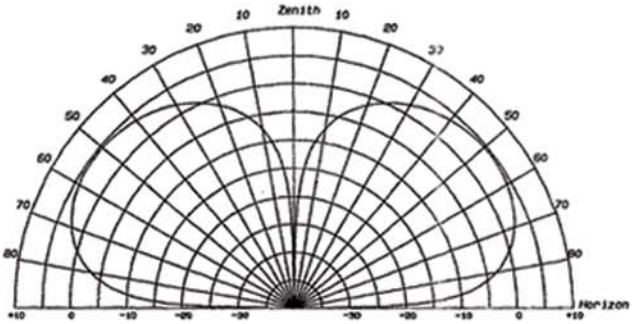
Elevation Pattern - 10.16 MHz Vertical Polarization
Gain: 2.77 dBi without AMU



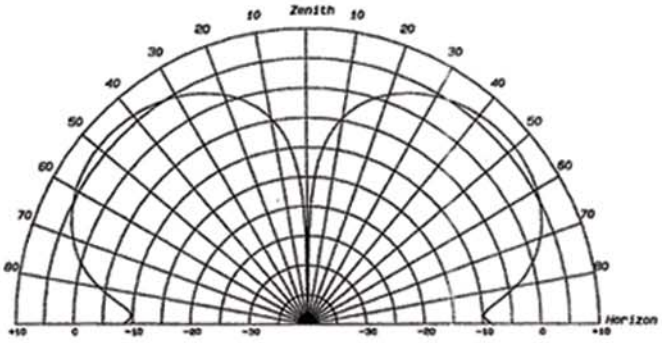
Elevation Pattern - 15.24 MHz Vertical Polarization
Gain: 4.38 dBi without AMU



Elevation Pattern - 19.99 MHz Vertical Polarization
Gain: 4.75 dBi without AMU



Elevation Pattern - 26.2 MHz Vertical Polarization
Gain: 4.61 dBi without AMU



Elevation Pattern - 30 MHz Vertical Polarization
Gain: 6.55 dBi without AMU

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