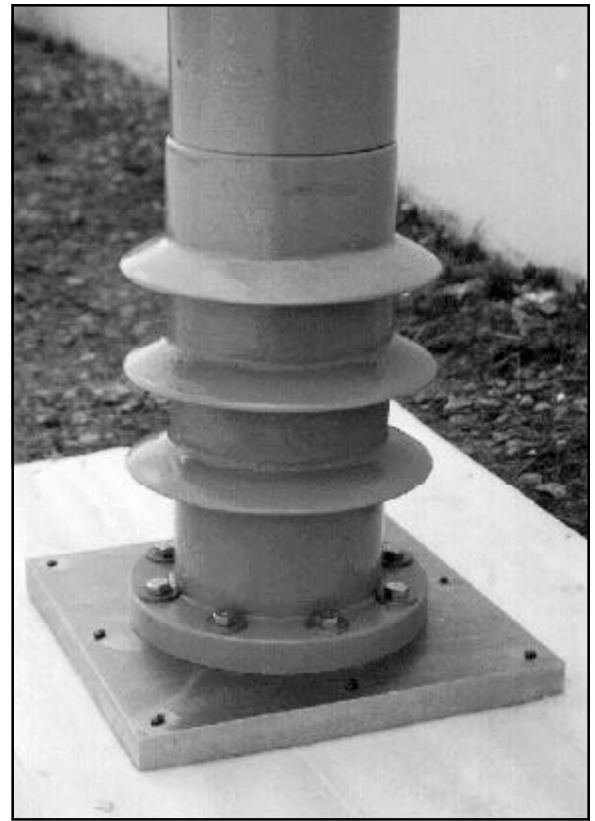
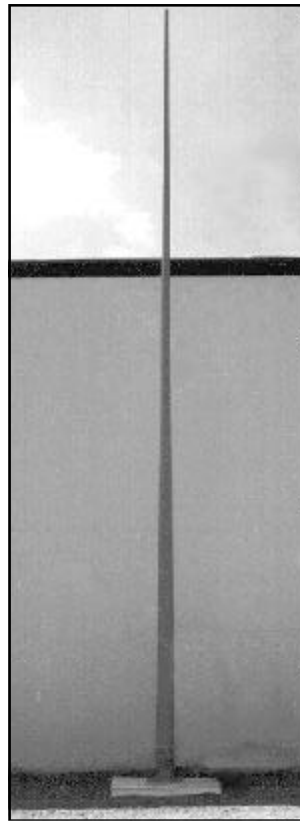


MPS-35

- HF WHIP
- VERTICALLY POLARIZED
- BROADBAND



Applications

The MPS-35 is an HF whip antenna designed for general purpose marine environment shipboard applications. It is a vertically polarized end-fed monopole operating in the 2 to 30 MHz frequency band. The HF whip antenna can be operated singly for either receiving or transmitting applications. It can be paired with a second whip in a twin-whip antenna configuration and used for broadband purposes. It is suitable for mounting on ship decks and tilt mechanisms.

Features

The MPS-35 HF whip antenna is a rugged, highly reliable, maintenance free design. Its general construction is all aluminum, fiberglass, and stainless steel, which enables it to withstand the saline marine environment. Its three piece tapered aluminum tubular

construction facilitates assembly and installation. A vibration damping cable/spring is used to securely maintain the tapered tubes in compression and dampen the natural vibrations of the structure at frequencies encountered aboard ships. The base insulator contains three fiberglass drip shields to prevent moisture and other elements from shorting out the antenna element to the base. It is used with an appropriate coupler to match the whip impedance.



SPECIFICATIONS

Frequency Range	2-30 MHz	Humidity	0 to 100%
Power	5 KW average	Wind	100 knots
Polarization	Vertical	Ice	4.5 psf on all exposed surfaces
Radiation Pattern	Omnidirectional	Salt Fog (spray)	Withstand 100 hrs test
RF Input Connector	3/8"-16 cap screw	Height	420 inches
Temperature Range		Base	13 inch dia
Operating	-54° C to +65° C	Mounting	.625 inch dia bolts on 10.75 inch bolt circle
Non-Operating	-62° C to +71° C	Weight	Less than 195 lbs
Dust (fine sand)	Test per MIL-STD-810 Method 510.2	Construction	Aluminum radiator, epoxy composite fiber glass insulator, and stainless steel hardware.
Shock	MIL-S-901C, Grade A, Class I		
Vibration	MIL-STD-167-1, Type I		