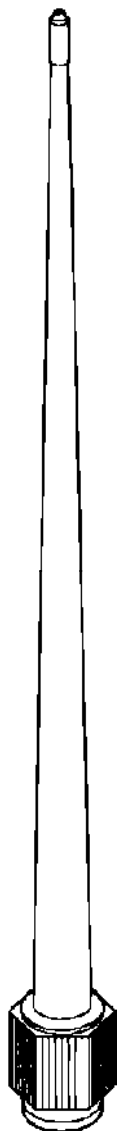


# MPS-10M

- HF MONOPOLE ANTENNA
- VERTICALLY POLARIZED
- BROADBAND



## Applications

The MPS-10M broadband HF antenna is a vertically polarized shipboard antenna. The antenna has an instantaneous bandwidth of 2-30 MHz at powers up to 12 kW. The monopole design is resistively loaded to provide broadband performance. The unit is designed for the harsh environment in shipboard applications.

## Features

The MPS-10M is uniquely designed to provide broadband performance. The element is housed inside a fiberglass radome. The element has energy absorbing capabilities and can dampen the natural vibrations encountered aboard ships. The input matching RF network along with the loading circuitry is contained in the base of the monopole, and is housed in an oil-filled container which serves to both cool the components and to protect them from the marine environment.



## SPECIFICATIONS

Frequency Range	2-30 MHz	Shock	MIL-S-901C, Grade A, Class I
Power /1	1 KW average	Vibration	MIL-STD-167-1, Type I
/2	4 kW average	Humidity	0 to 100%
/3	8 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
Impedance	50 Ohms unbalanced	Height	10 meters
VSWR	2:1	Base	13 inch dia
RF Input Connector	1-5/8" EIA Flange	Mounting	.625 inch dia bolts on 10.75 inch bolt circle
Temperature Range		Weight	Less than 600 lbs
Operating	-54° C to +65° C	Construction	Stainless steel radiator and hardware with fiberglass radome and aluminum/fiberglass base
Non-Operating	-62° C to +71° C		
Dust (fine sand)	Test per MIL-STD-810 Method 510.2		Patent Pending