

# BROADBAND PROPAGATION

## Antenna Design & Supply

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### VHF- UHF 30-512 MHz SHIPBOARD WHIP ANTENNA Model: BP-MW-30-512

The BP-MW-30-512 is designed specifically for shipboard mounting. With one single input connection, the antenna requires no external tuning or switching devices.

It will deliver instantaneous access to the full frequency band of 30 to 512 MHz. Power rating is 70 watts. This antenna is ideally suited for use with modern, software-defined, Naval radio transceivers.

The radiating element is constructed from heavy duty tapered fibreglass. All metal components are fabricated from marine grade stainless steel. All other exposed surfaces are fully protected against aggressive, marine/salt spray environments.

A variety of mounting fixtures, constructed from marine grade stainless steel, are available, or the mount can be tailored to suit the customer's specific needs.

*\*No Antenna tuner or external switching required. Full-band instantaneous operation available with only one single RF input.*

*\*Full connector protection provided via gland-entry weather shroud*

*\*Lightning and static discharge protection provided*

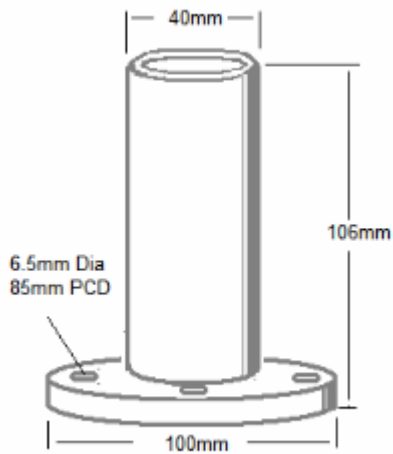


#### Specifications

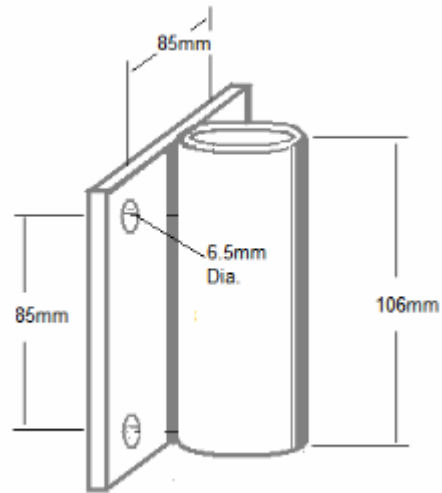
Frequency:	30-512 MHz
Gain:	-1dBi to 5 dBi typical
VSWR:	Maximum 3.5:1 across band
Horizontal Pattern:	Omnidirectional
Polarisation:	Vertical
Power Rating :	70 watts
Input Impedance:	50 Ohms
Input connection:	N type female
Overall length:	2.8m
Overall Width:	30mm at base
Wind Rating:	130 km/hr
Operational Temperature:	-20 deg C to +55 deg C
Storage Temperature:	-20 deg C to +70 deg C
Weight:	2.1 kg (excluding mounting)
Shipping Weight:	3 kg including mounting
Shipping Size:	2.9m x 0.2m x 0.15m
Mounting:	Customer specified mounting

Can be supplied with a variety of marine grade stainless steel mounting fixtures

## Mounting Options



Flange Mount - Marine Grade Stainless Steel



Side or Post/ Spigot Mount - Marine Grade Stainless Steel

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## ENVIRONMENTAL SPECIFICATIONS

The BP-MW-30-512 is engineered and manufactured to be compliant with the following JSS 5555 Standards as per table N1 of JSS 5555, covering the following tests.

- 1 Vibration Test
- 2 High Temperature (operational and storage)
- 3 Damp Heat
- 4 Low Temperature (operational and storage)
- 5 Drip Proof
- 6 Tropical Exposure
- 7 Mould Growth
- 8 Corrosion
- 9 Toppling
- 10 Bump Test
- 11 Shock or Impact test

**BP-MW-30-512 VHF-UHF SHIPBOARD WHIP ANTENNA**  
Radiation Patterns

Note: These Patterns are derived with the antenna unencumbered by Ship superstructure or other nearby antennas.

