

Application

The VHF3088VM-PM Series is a VHF permanent mount antenna designed for use in hostile environments. The antenna is a dipole design so does not require a ground plane to operate. Two types of mounting interface are available to match the customer requirement.

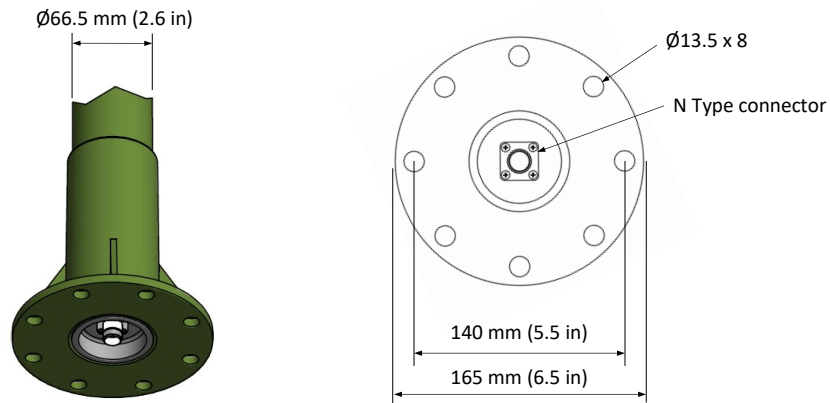
Electrical Specification

Frequency range	30 - 88 MHz
VSWR	See diagram
Nominal impedance	50 ohm
Power rating	100 W
Gain	See diagram
Radiation pattern	Azimuth: Omnidirectional Elevation: See overleaf
Polarisation	Vertical
Connector	N Type Female, others on request

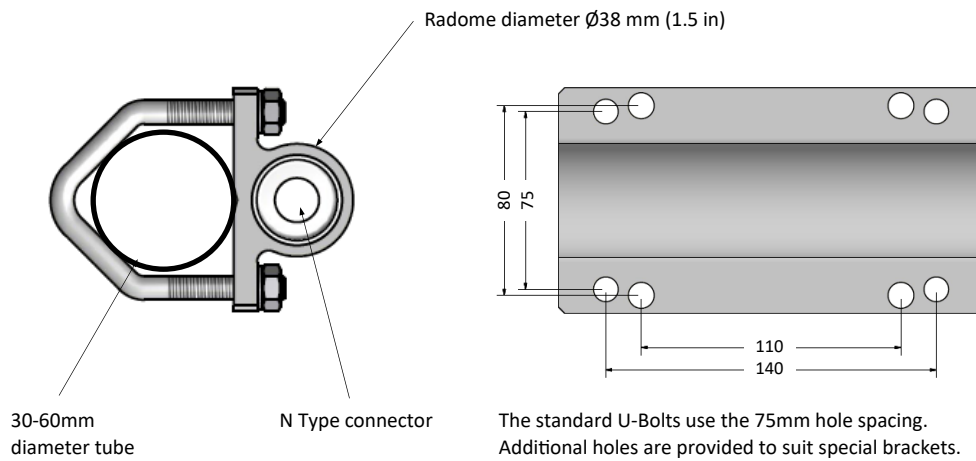
Mechanical specification

Design	Centre fed dipole. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are plated brass and stainless steel.
Length	3.2 m (126 in)
Diameter (radome)	VHF3088VM-PMR - 66.5 mm (2.6 in) VHF3088VM-PMM - 38 mm (1.5 in)
Weight	VHF3088VM-PMR - 11.4 kg (25.1 lbs) VHF3088VM-PMM - 5.5 kg (lbs)
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer.
Colour	Customer Specified
Installation	See base detail below
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F

Mounting Options:

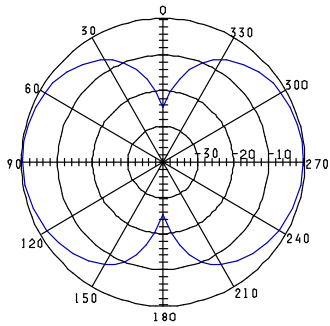


**VHF3088VM-PMR
Rigid Mount**

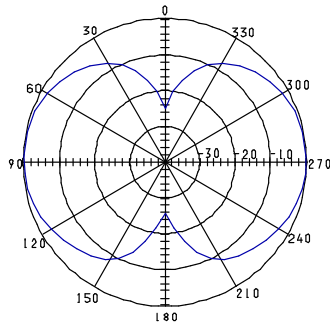


**VHF3088VM-PMM
Mast/Wall Mount**

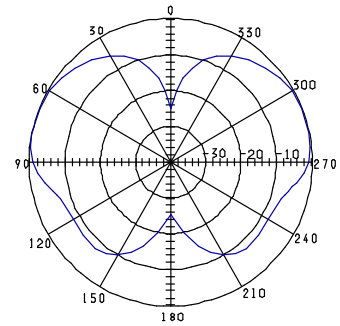
Radiation Diagram, Elevation:



30MHz

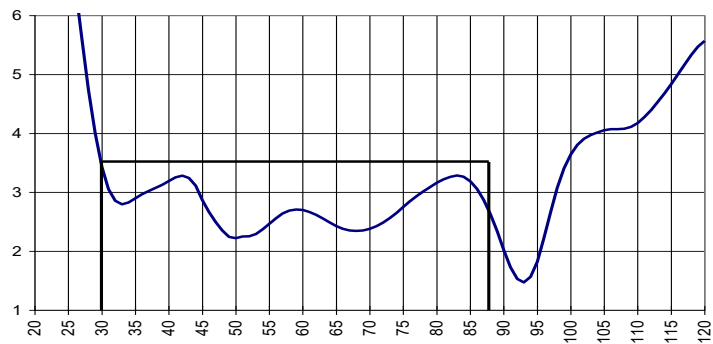


60MHz



88MHz

VSWR



GAIN, relative to a $\frac{1}{4}\lambda$ whip on GP

