



DS038463-2
5/16/2023

Unity Gain, Broad-Band Base Station Antenna for 380 - 470 MHz

Description

- Sturdy, 0 dBd, vertically polarized, omnidirectional base station antenna which covers 380-470 MHz.
- The antenna is provided with our "C" mast bracket, which is a universal, epoxy-coated mounting bracket made of non-corrosive aluminum. The accompanying U-bolts and fittings are made of stainless steel.
- The antenna can be mounted on 27 to 65 mm dia. mast tubes, and it is possible to run the cable either along the outside or on the inside of the mast tube for more protection.
- The broad-banded antenna element is completely enclosed in a glass fiber shroud, which will ensure performance undisturbed by corrosive environments.
- To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable.
- This antenna is constructed to ensure long dependable service in all climates.



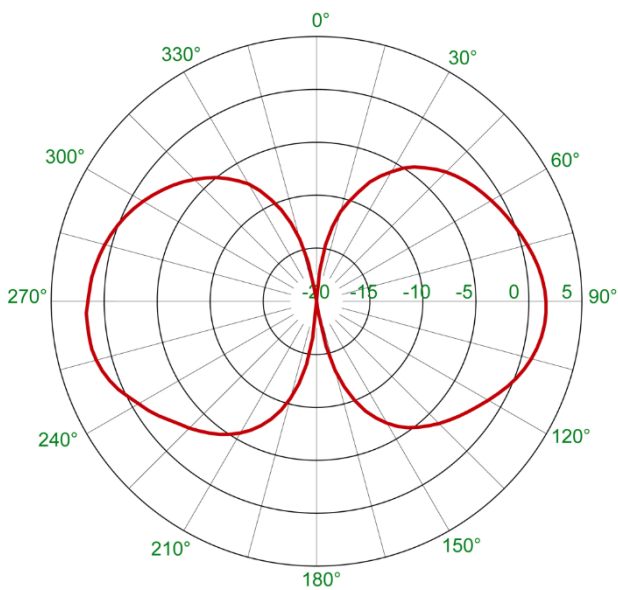
Specifications

Electrical	
Model	See model ordering information table below
Antenna Type	Coaxial dipole, broad-banded
Frequency Range of operation	380-470MHz
Bandwidth	90 MHz
Max. Input Power	150 W
Polarization	Vertical
3 dB Beamwidth, E-Plane	60°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.0:1
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 030DE00

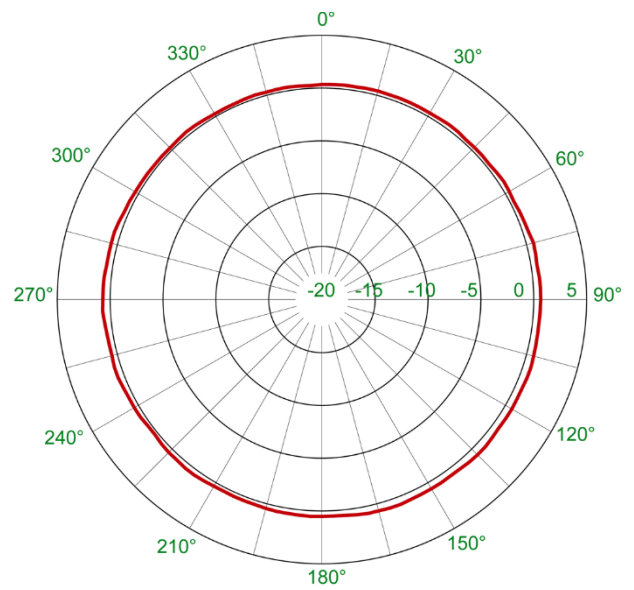
Mechanical	
Connection(s)	N(f)
Materials	Radome : Polyurethane-coated glass fibre Mounting bracket : Seawater resistant aluminium, epoxy-coated
Color	White (RAL 9003)
Wind Area	0.042 sq. m / 0.45 sq. ft
Wind Load	49 N (160 km/h)
Length	Approx. 1.1m / 43.31 in.
Weight	Approx. 2.4 kg / 5.29 lb.
Mounting	On 27 - 65 mm / 1.06 - 2.56 in. dia. mast tube (Ordered separately)

Environmental	
Operating Temperature Range	-30 °C to +70 °C
Survival Wind Speed	200 km/h

Radiation Pattern

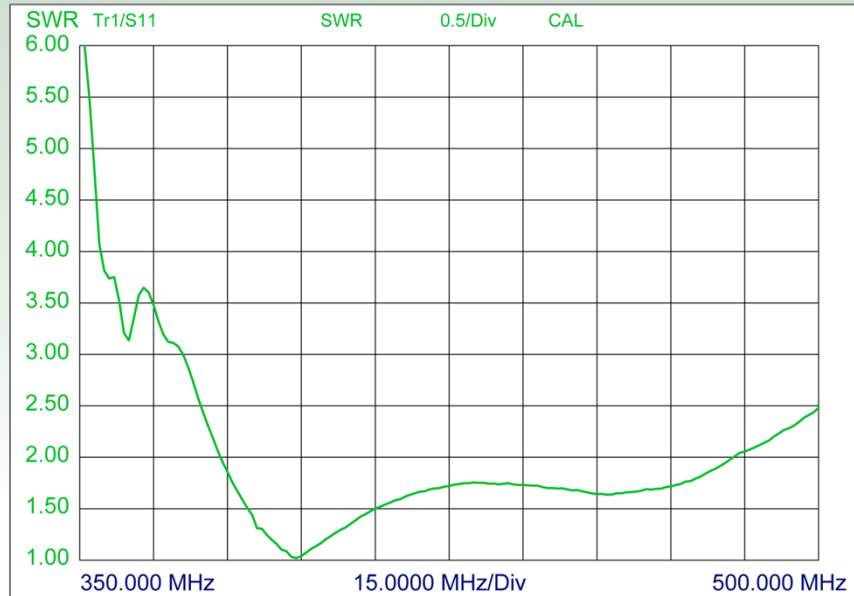


E-Plane

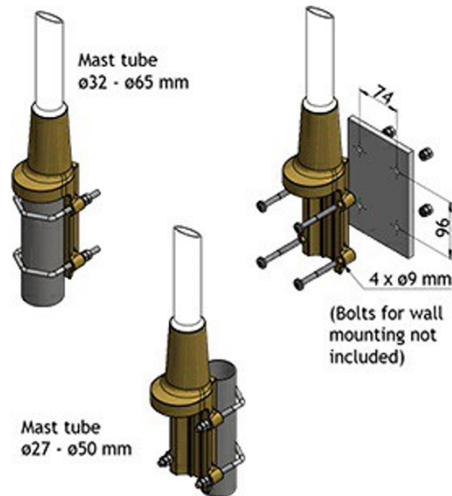


H-Plane

Typical VSWR Curve



Multipurpose Mounting Bracket



Model Ordering Information:

Model	Description	Type	Frequency Range
104-57E-0-0-07-N	Coaxial dipole, broad-banded	N(f)	380-470 MHz