

Heavy duty broadband ground plane 145-175MHz

DESCRIPTION

The 438 Series are heavy duty omni antennas consisting a broadband quarter wave radiator and four radial ground planes of an extremely rugged and reliable construction. The quarter wave radiator incorporates a d.c. short to minimise static interference. The antenna is available in a variety of two part lacquer finishes, including IR proof military green.

- Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	145 - 175 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.0:1
Lightning Protection	Lightning current handling capability: 200 kA According to EN 62305-1 (Test pulse 10/350 µs)

Mechanical	
Radiating Element(s)	100 mm dia.x 2 mm wall aluminium alloy grade 6063T6
Ground Plane Matl	32mm dia. x 1.5mm wall aluminium alloy grade 6063T6
Connection(s)	N(f)
Fasteners	Stainless steel grade A2-70
Length	770 mm / 30.31 in.
External Finish	Polyester Coated White (Other colours available on request)
Wind Load	108 N (160km/h)
Weight	3.4 kg / 7.50 lb
Mounting	Integral bracket suits up to 60 mm dia. pole

Environmental	
Survival Wind Speed	280 km/h

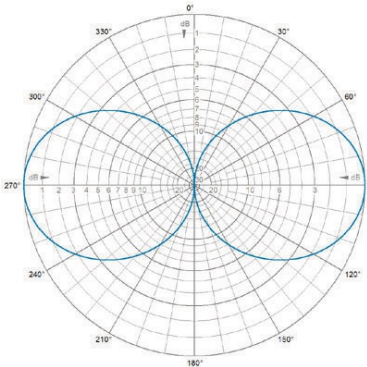
ORDERING

Model	Product No.	Frequency
Heavy duty broadband ground plane 145-175MHz	438.03.05.00	145 - 175 MHz



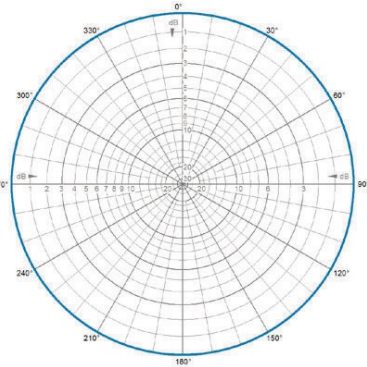
DIAGRAM

RADIATION PATTERNS



E-Plane | 160 MHz

RADIATION PATTERNS



H-Plane | 160 MHz