

## Heavy duty broadband ground plane 108-156 MHz

### 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	108 - 156 MHz
Max. Input Power	1000 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	950 mm / 37.40 in.
External Finish	Polyester Coated White (Other colours available on request)
Wind Load	130 N (160km/h)
Weight	4.1 kg / 9.04 lb
Mounting	Integral bracket suits up to 60 mm dia. pole
Nato Stock No.	5985-22-306-9402

Environmental	
Survival Wind Speed	280 km/h

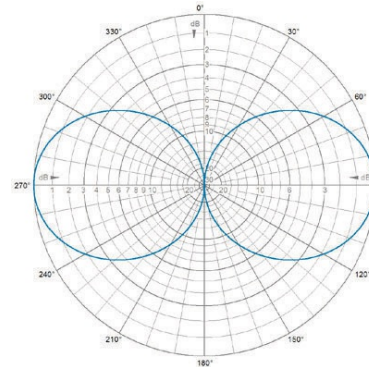
### ORDERING

Model	Product No.	Description	Frequency
Heavy duty broadband ground plane 108-156 MHz	438.02.05.00		108 - 156 MHz
Heavy duty broadband ground plane 108-156 MHz	438.02.05.00G	Coated NATO green	108 - 156 MHz



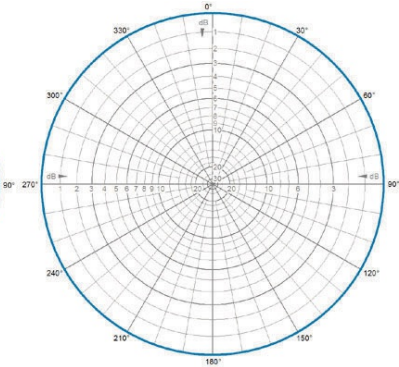
### DIAGRAM

RADIATION PATTERNS



E-Plane | 132 MHz

RADIATION PATTERNS



H-Plane | 132 MHz