Heavy duty high power centre fed folded dipole 88-108 MHz

DESCRIPTION

A Heavy Duty, VHF Center Fed Dipole antenna for PMR/Trunked Radio, Broadcast and VHF Aircraft Band applications. Multiple dipoles can be mounted on a tower and connected with a phasing harness to form a high gain, stacked array. Produced to the highest quality standards, these robust antenna designs will insure reliable operation in harsh environmental conditions.

• Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	88 - 108 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	85 °
3 dB Beamwidth, H-Plane	Omni - will depend on mounting distance from mast.
Impedance	50 Ω
Gain	0 dBd (omni - will depend on mounting distance from mast)
VSWR	< 1.5:1
Front-To-Back Ratio	4 dB (when mounted on conductive pole)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

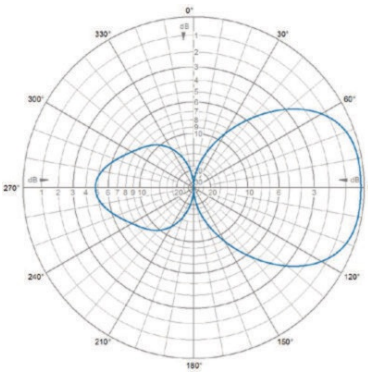
Mechanical	
Elements	19 dia. x 1.6 mm wall aluminium alloy grade 6063T6
Connection(s)	N(f) on 3m RG213/U cable
Boom Material	48.4 mm dia. x 4.5 mm wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	1500 mm / 59.06 in.
Element Clamps	Machined aluminium alloy
Wind Load	220 N (160km/h)
Weight	6.2 kg / 13.67 lb
Balun Encapsulant	Polyurethane Resin U-600

ORDERING

Model	Product No.	Frequency
Heavy duty high power centre fed folded dipole 88-108 MHz	S.1H-98	88 - 108 MHz

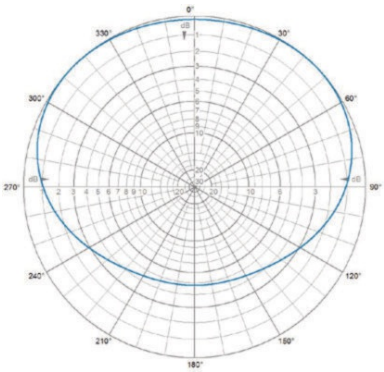
DIAGRAM

RADIATION PATTERNS



E-Plane | 98 MHz

RADIATION PATTERNS



H-Plane | 98 MHz

PROCOM A/S reserves the right to amend specifications without prior notice

Last edited: 2019/02/19