

2-stack dipole phased array 145-175 MHz

DESCRIPTION

- The S.M2 is an array of phased centre fed folded dipoles mounted on an aluminium mast for PMR / Trunked radio applications.
- Each folded dipole balun assembly and associated harness junction is completely encapsulated in poyurethane resin, totally preventing moisture ingress.
- At VHF the antenna disassembles and flat packs for ease of shipping.
- Former Skymasts brand product.

ORDERING

Model	Product No.	Frequency
2-stack dipole phased array 145-175 MHz	S.M2-160-SB	145 - 175 MHz

SPECIFICATIONS

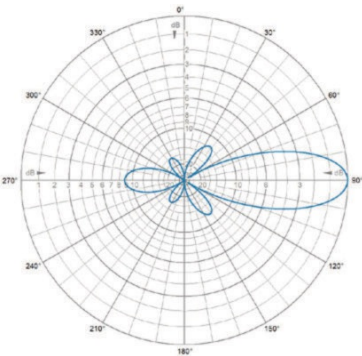
Electrical	
Frequency	145 - 175 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	36 °
3 dB Beamwidth, H-Plane	180 °
Impedance	50 Ω
Gain	5 dBd (7.2 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	5.5 dB
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Elements	12.7 dia. x 1.6 mm wall aluminium alloy grade 6063T6
Connection(s)	N(f) on RG213/U cable
Boom Material	63.5 mm dia. x 6.3 mm wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	3.5m (supplied in two sections)
Element Clamps	Diecast Al / Zinc alloy
Wind Load	387 N (160km/h)
Weight	15 kg / 33.07 lb
Balun Encapsulant	Polyurethane Resin U-600

Environmental	
Ingress Protection	IP68

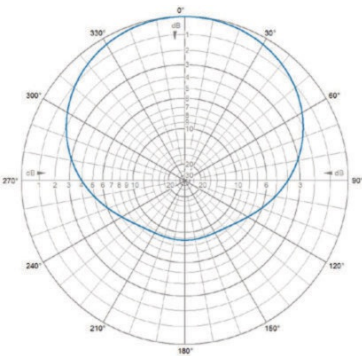


RADIATION PATTERNS



E-Plane | 160 MHz

RADIATION PATTERNS



H-Plane | 160 MHz