

## 2-stack lightweight dipole 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 polyurethane 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 lightweight dipole array, 145-175 MHz	S.M2E-160	145 - 175 MHz
Galvanised steel parallel bracket 32-60mm (PAIR)	0300120/00	
Galvanised steel parallel bracket 38-120mm (PAIR)	2141.01.00.00	
Extruded Parallel Tube Clamp, 50 - 76mm	ETC-250	

### SPECIFICATIONS

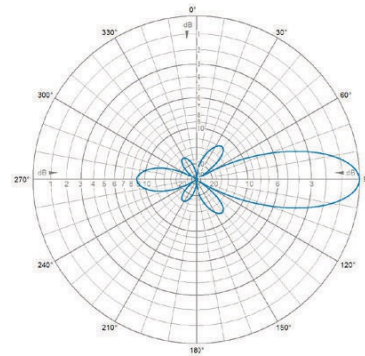
Electrical	
Frequency	145 - 175 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	36 °
3 dB Beamwidth, H-Plane	180 °
Impedance	50 Ω
Gain	5 dBd (7.2 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	> 5.5 dB
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	N(f) on RG213/U cable
Materials	Main Boom, 48 mm dia., aluminium elements, 12.7 mm dia., aluminium balun, fully potted enclosure
Dimensions	3400 mm (h) x 590 mm (w) (supplied in two sections)
Wind Load	363 N (160km/h)
Weight	8.5 kg / 18.74 lb
Mounting Bracket	0300120/00 (Ordered Separately) ETC-250 (ø50 to ø76mm) (Ordered Separately)
Alternate Mounting Bracket	2141.01.00.00 (up to ø120mm) (Ordered Separately)

Environmental	
Operating Temperature Range	-40 to 70 °C
Ingress Protection	IP68

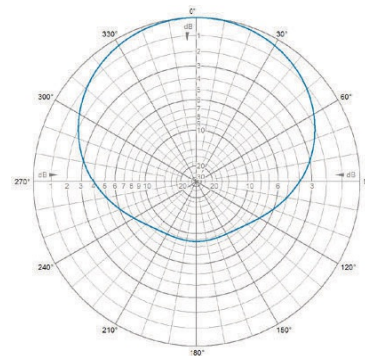


### RADIATION PATTERNS



E-Plane | 160 MHz

### RADIATION PATTERNS



H-Plane | 160 MHz