



4-Stack Dipole Array Split-Boom

145 - 175 MHz Antenna

Model: 104A-SMD-38F-9
DS040461



Description

- The antenna 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.

Electrical Specifications

Parameter	Value
Frequency	145 – 175 MHz
Max. Input Power	500 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	16°
3 dB Beamwidth, H-Plane	180° (offset configuration), 360° (omni configuration)
Impedance	50 Ω
Gain	Omni 5.7 dBd / Offset 8.7 dBd
VSWR	< 1.5:1
Front-To-Back Ratio	> 7 dB offset
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)



Mechanical Specifications

Parameter	Value
Elements	12.7 x 1.6 mm dia. / 0.5 x 0.06 in. wall aluminium alloy grade 6063T6
Connection(s)	N(f) on RG213/U cable
Boom Material	63.5 x 6.3 mm dia. / 2.5 x 0.25 in. wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	6 m (supplied in two sections)
Element Clamps	Diecast Al / Zinc alloy
Wind Load	694 N (160 km/h)
Weight	Approx. 26 kg / 57.32 lb.
Balun Encapsulant	Polyurethane Resin U-600

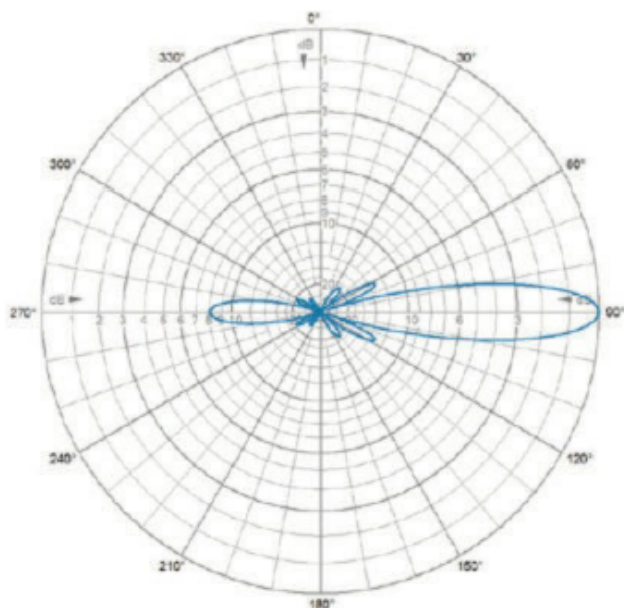
Environmental Specifications

Parameter	Value
Ingress Protection	IP68

Model / Ordering Information

Model	Description	Frequency
104A-SMD-38F-9	4-stack dipole array, split boom	145 – 175 MHz

E-Plane | 160 MHz



H-Plane | 160 MHz

