



2-Stack Dipole Phased Array

Antenna 420-470MHz

Model: 104A-SMD-64A-5
DS040464



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.

Electrical Specifications

Parameter	Value
Frequency	420 – 470 MHz
Max. Input Power	250 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	36°
3 dB Beamwidth, H-Plane	160°
Impedance	50 Ω
Gain	5 dBd (7.2 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	7 dB
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	38.1 x 3.2 mm dia. / 1.5 x 0.13 in. wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	Approx. 1250 mm / 49.21 in.
Element Clamps	Diecast Al / Zinc alloy
Wind Load	109 N (160 km/h)
Weight	Approx. 3 kg / 6.61 lb.
Balun Encapsulant	Polyurethane Resin U-600

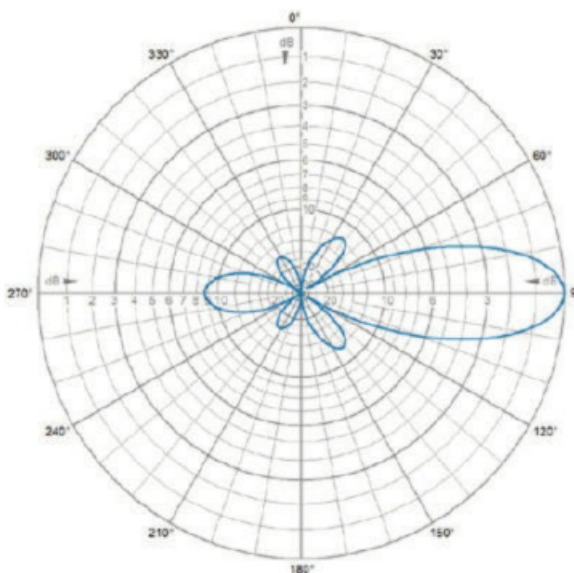
Environmental Specifications

Parameter	Value
Ingress Protection	IP68

Model / Ordering Information

Model	Description	Frequency
104A-SMD-64A-5	2-stack dipole phased array	420 – 470 MHz

E-Plane | 445 MHz



H-Plane | 445 MHz

