



4-Stack Dipole Phased Array

Antenna 420 - 470 MHz

Model: 104A-SMD-64A-5-X
DS040465



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	16°
3 dB Beamwidth, H-Plane	160°
Impedance	50 Ω
Gain	8.7 dBd (10.9 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 × 1.6 mm dia. / 0.5 × 0.06 in. wall aluminium alloy grade 6063T6
Connection(s)	N(f) on RG213/U cable
Boom Material	38.1 × 3.2 mm dia. / 1.5 × 0.13 in. wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	2500 mm
Element Clamps	Diecast Al / Zinc alloy
Wind Load	206 N (160 km/h)
Weight	Approx. 5.5 kg / 12.13 lb.
Balun Encapsulant	Polyurethane Resin U-600

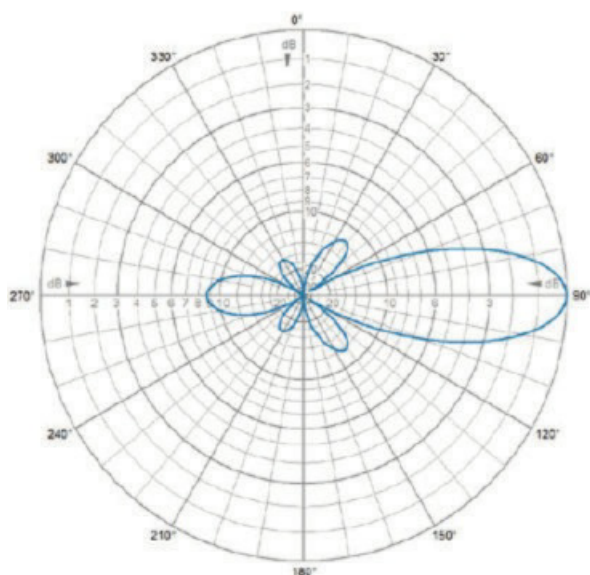
Environmental Specifications

Parameter	Value
Ingress Protection	IP68

Model / Ordering Information

Model	Description	Frequency
104A-SMD-64A-5-0	0° Electrical Tilt	420 – 470 MHz
104A-SMD-64A-5-5	5° Electrical Tilt	420 – 470 MHz
104A-SMD-64A-5-10	10° Electrical Tilt	420 – 470 MHz
104A-SMD-64A-5-15	15° Electrical Tilt	420 – 470 MHz

E-Plane | 445 MHz



H-Plane | 445 MHz

