4-Stack Dipole Phased Array

Antenna 380 - 430 MHz

Model: 104A-SMD-56-9
DS040462

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	380 – 430 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)

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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	2600 mm
Element Clamps	Diecast Al / Zinc alloy
Wind Load	232 N (160 km/h)
Weight	Approx. 6 kg / 13.23 lb.
Balun Encapsulant	Polyurethane Resin U-600

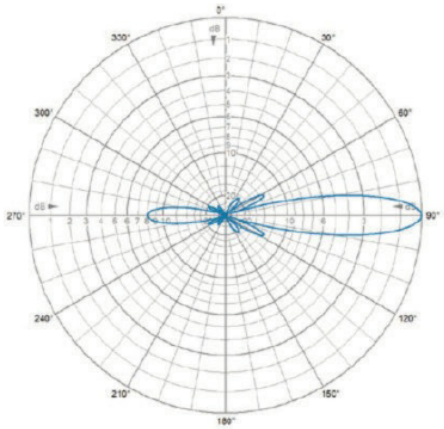
Environmental Specifications

Parameter	Value
Ingress Protection	IP68

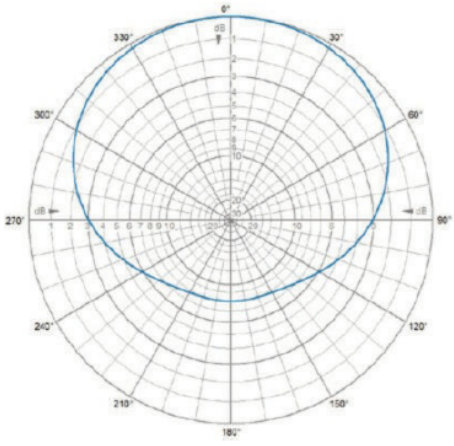
Model / Ordering Information

Model	Description	Frequency
104A-SMD-56-9	4-stack dipole phased array	380 – 430 MHz

E-Plane | 405 MHz



H-Plane | 405 MHz



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