4-Stack Dipole Phased Array Antenna 465-525 MHz

Model: 104A-SMD-68D-9
DS040467

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	465 – 525 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)

TX RX Systems Inc.
8625 Industrial Pkwy,
Angola, NY 14006
716.549.4700 www.txrx.com

Mechanical Specifications

Parameter	Value
Elements	12.7 dia. x 1.6 mm wall aluminium alloy grade 6063T6
Connection(s)	N(f) on RG213/U cable
Boom Material	38.1 mm dia. x 3.2 mm wall aluminium alloy grade 6082T6
Fasteners	Stainless steel grade A2-70
Length	2300 mm
Element Clamps	Diecast Al / Zinc alloy
Wind Load	206 N (160 km/h)
Weight	5 kg / 11.02 lb
Balun Encapsulant	Polyurethane Resin U-600

Environmental Specifications

Parameter	Value
Ingress Protection	IP68

Model / Ordering Information

Model	Description	Frequency
104A-SMD-68D-9	4-stack dipole phased array 0° Electrical Tilt	465 – 525 MHz

TX RX Systems Inc.
8625 Industrial Pkwy,
Angola, NY 14006
716.549.4700 www.txrx.com