



4-stack dipole array TETRA

omni 380 - 430 MHz

Model: 104A-SMD-57E-6
DS040463



Description

- This antenna is designed for improved performance in multi-channel communication systems such as TETRA.
- The antenna features four phased folded dipoles fed with an RG214 coaxial feed network which allows for beam tilt to be applied to the pattern; high quality materials and manufacturing techniques are employed throughout to ensure that the antenna meets strict intermodulation requirements of multichannel systems.
- The antenna is supplied as standard with a 5 meter tail terminated with a 7/16 socket. This model has a stronger boom to cope with high wind speeds.

Electrical

Parameter	Value
Frequency	380 – 430 MHz
Max. Input Power	500 W
Polarization	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	$19^{\circ} \pm 3^{\circ}$
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	5.7 dBd (7.9 dBi)
VSWR	< 1.5:1
Passive Intermodulation	-143 dBc (3rd Order, 2 x Tx @ 43 dBm)
Lightning Protection	Lightning current handling capability : 200 kA According to EN 62305-1 (Test pulse 10/350 μ s)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)



Mechanical

Parameter	Value
Connection(s)	7/16(f) on 5m RG214/U cable
Materials	Antenna elements: Aluminum 6063T6 (12.7 mm dia.) Antenna boom: Aluminum 6082T6 (38.1 mm dia.) Fasteners: Stainless steel A2 Radiating element: Brass
Length	Approx. 2600 mm / 102.36 in.
Wind Load	232 N (160 km/h)
Weight	Approx. 6 kg / 13.23 lb
Mounting Bracket	2140.01.00.00 (up to 60 mm dia.) 2141.01.00.00 (up to 120 mm dia.) (Ordered Separately) 0300284/00 + U-bolts to match mounting pipe diameter (Ordered Separately) ETC-250 (50 to 76 mm dia.) (Ordered Separately)

Environmental

Parameter	Value
Survival Wind Speed	300 km/h
Ingress Protection	IP68

Ordering

Model	Description
104A-SMD-57E-6	4-stack dipole array TETRA omni

Accessories

Model	Description
91-00-104-03	Cast aluminium cross clamp, square
91-00-104-36	M8 x 50 mm (2") U-Bolts (1 Pair)
91-00-104-76	M8 x 75 mm (3") U-Bolts (1 Pair)
91-00-104-35	M8 x 100 mm (4") U-Bolts (1 Pair)
91-00-104-57	M10 x 125 mm (5") U-Bolts (1 Pair)
91-00-104-00	Galvanised steel parallel bracket 25 - 60 mm (PAIR)
91-00-104-01	Galvanised steel parallel bracket 38 - 120 mm (PAIR)
91-00-104-02	Extruded Parallel Tube Clamp 50 - 76 mm

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