

9 dBd HD omni antenna 790-960 MHz, low PIM, null fill

DESCRIPTION

- The 4250 Series colinear antennas are designed for LTE/GSM applications where a durable and high performance antenna is required.
- The centre fed dipole design and feed network gives a stable radiation pattern across a wide bandwidth, allows tilted beam designs to be effectively employed without large pattern distortions, and fills the lower pattern nulls.
- High quality materials and manufacturing techniques are employed to ensure that the antenna has excellent intermodulation performance & wide bandwidth characteristics for multi-channel trunked radio communication systems.
- The antenna has been designed to withstand lightning strike.

SPECIFICATIONS

Electrical	
Frequency	790 - 960 MHz
Max. Input Power	400 W
Omni Deviation	< ± 0.5 dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	5.5° ±0.5°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	9 dBd (11.2 dBi)
VSWR	< 1.5:1
Lower Sidelobe Control	25 %
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Lightning Protection	Lightning current handling capability: 200 kA According to EN 62305-1 (Test pulse 10/350 µs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

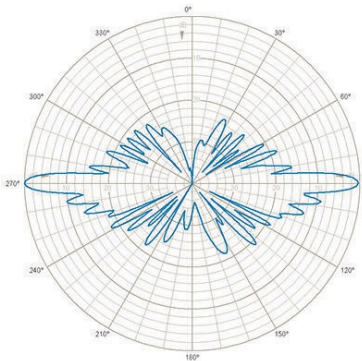
Mechanical		
Connection(s)	7/16 DIN(f)	
Materials	Antenna Base: Aluminium Shroud: GRP tube 53mm dia.	
Mounting Section	Al. tube 63.5 mm dia. x 350 mm long	
Length	3850 mm / 151.57 in.	
Wind Load	309 N (160km/h)	
Weight	8.5 kg / 18.74 lb	
Mounting Bracket	2141.01.00.00 (up to ø120mm) (Ordered Separately)	ETC-250 (ø50 to ø76mm) (Ordered Separately)

Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP56



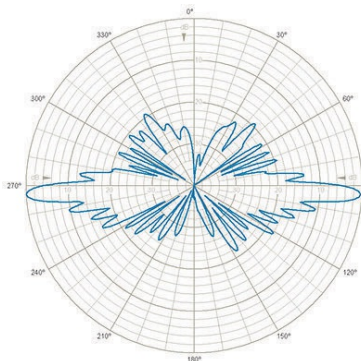
DIAGRAM

RADIATION PATTERNS



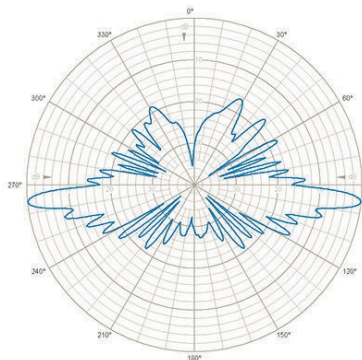
E-Plane | 875 MHz | 0°

RADIATION PATTERNS



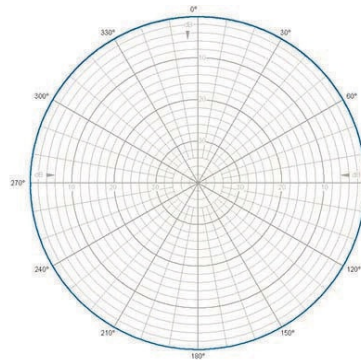
E-Plane | 875 MHz | 3°

RADIATION PATTERNS



E-Plane | 875 MHz | 6°

RADIATION PATTERNS



H-Plane | 875 MHz

ORDERING

Model	Product No.	Description	Frequency
9 dBd HD omni antenna 790-960MHz, low PIM, null fill	4250.09-875-T0	0° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna 790-960MHz, low PIM, null fill	4250.09-875-T3	3° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna 790-960MHz, low PIM, null fill	4250.09-875-T6	6° Electrical Tilt	790 - 960 MHz
Galvanised steel parallel bracket 38-120mm (PAIR)	2141.01.00.00		
Extruded Parallel Tube Clamp, 50 - 76mm	ETC-250		

