

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

DESCRIPTION

- The 425x 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

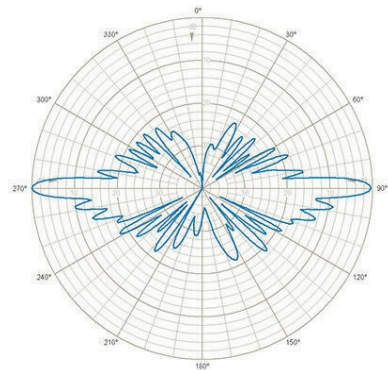
Electrical	
Model	425x.09-875-Tx
Frequency	790 - 960 MHz
Max. Input Power	400 W
Omni Deviation	< ± 0.5 dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	5.5° ±0.5°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	9 dBd (11.2 dBi)
VSWR	< 1.5:1
Lower Sidelobe Control	25 %
Passive Intermodulation	-153 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 μs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	7/16 DIN(f) or 4.3-10(f)
Materials	Antenna Base : Aluminium Shroud : GRP tube 53mm dia.
Mounting Section	Al. tube 63.5 mm dia. x 350 mm long
Length	Approx. 3850 mm / 151.57 in.
Wind Load	309 N (160 km/h)
Weight	Approx. 8.5 kg / 18.74 lb.
Mounting Bracket	2141.01.00.00 (up to 120 mm dia.) (Ordered Separately) ETC-250 (50 to 76 mm dia.) (Ordered Separately)
Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP56

ORDERING

Model	Product No.	Description	Frequency
9 dBd HD omni antenna, low PIM, null fill	4250.09-875-T0	7/16 DIN(f) ; 0° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna, low PIM, null fill	4250.09-875-T3	7/16 DIN(f) ; 3° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna, low PIM, null fill	4250.09-875-T6	7/16 DIN(f) ; 6° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna, low PIM, null fill	4253.09-875-T0	4.3-10(f) ; 0° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna, low PIM, null fill	4253.09-875-T3	4.3-10(f) ; 3° Electrical Tilt	790 - 960 MHz
9 dBd HD omni antenna, low PIM, null fill	4253.09-875-T6	4.3-10(f) ; 6° Electrical Tilt	790 - 960 MHz

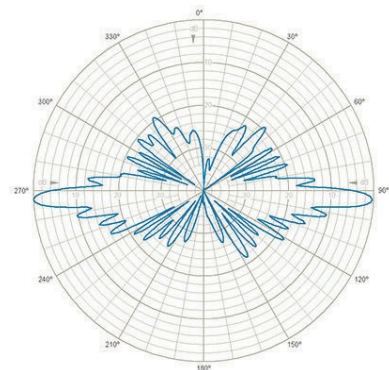
Accessories			
Galvanised steel parallel bracket	2141.01.00.00	38 - 120 mm (PAIR)	
Extruded Parallel Tube Clamp	ETC-250	50 - 76 mm	

RADIATION PATTERNS



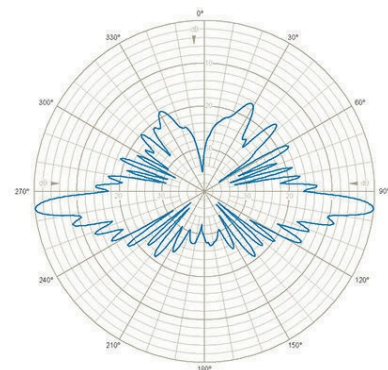
E-Plane | 875 MHz | 0°

RADIATION PATTERNS



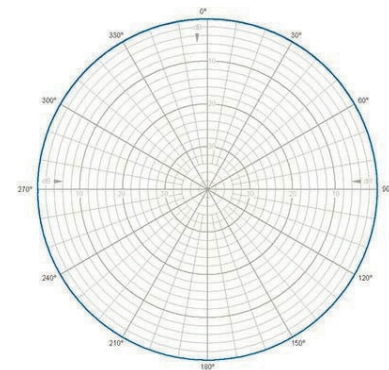
E-Plane | 875 MHz | 3°

RADIATION PATTERNS



E-Plane | 875 MHz | 6°

RADIATION PATTERNS



H-Plane | 875 MHz