



424x.09-875-Tx

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



DESCRIPTION

- The 424x 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, and allows tilted beam designs to be effectively employed without large pattern distortions.
- 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. A lightning finial (optional) can be fitted into the top cap via an M10 thread and an earth connection made to the antenna base or clamp.

SPECIFICATION

Electrical	
Model	424x.09-875-Tx
Frequency	790 – 960 MHz
Max. Input Power	400 W
Omni Deviation	< ± 1 dB
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW

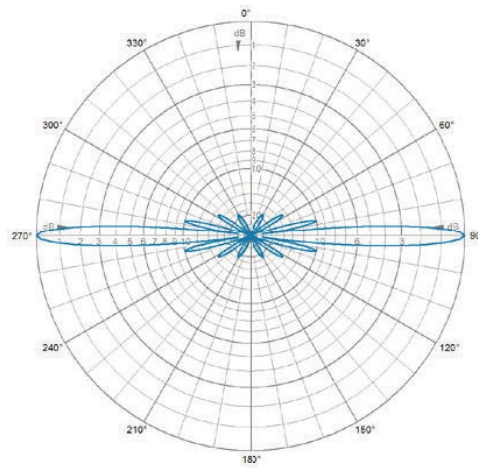
3 dB Beamwidth, E-Plane	8° ±1°
Impedance	50 Ω
Gain	9 dBd (11.2 dBi)
VSWR	< 1.5:1
Passive Intermodulation	-153 dBc (3rd Order, 2 x Tx @ 43 dBm)
Lightning Protection	Lightning current handling capability : 200 kA According to EN 62305-1 (Test pulse 10/350 µs)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP56
Mechanical	
Connection(s)	7/16 DIN(f) or 4.3-10(f)
Materials	Antenna Base : Aluminium Shroud : GRP tube 53 mm dia.
Mounting Section	Al. tube 63.5 mm dia. x 330 mm long
Historic Brand	Amphenol Procom
Dimensions	Overall Length 2752 mm / 108.34 in. Shroud dia. 53 mm / 2.09 in.
Wind Load	222 N (160 km/h)
Weight	Approx. 9 kg / 19.84 in.
Mounting Bracket	2141.01.00.00 (up to 120 mm dia.) (Ordered Separately) ETC-250 (50 to 76 mm dia.) (Ordered Separately)

ORDERING CODES

Model	Product No.	Frequency	Additional Information
9 dBd HD LTE omni antenna, low PIM	4240.09-875-T0	790 – 960 MHz	7/16 DIN(f) ; 0° Electrical Tilt
9 dBd HD LTE omni antenna, low PIM	4240.09-875-T3	790 – 960 MHz	7/16 DIN(f) ; 3° Electrical Tilt
9 dBd HD LTE omni antenna, low PIM	4240.09-875-T6	790 – 960 MHz	7/16 DIN(f) ; 6° Electrical Tilt
9 dBd HD LTE omni antenna, low PIM	4243.09-875-T0	790 – 960 MHz	4.3-10(f) ; 0° Electrical Tilt
9 dBd HD LTE omni antenna, low PIM	4243.09-875-T3	790 – 960 MHz	4.3-10(f) ; 3° Electrical Tilt
9 dBd HD LTE omni antenna, low PIM	4243.09-875-T6	790 – 960 MHz	4.3-10(f) ; 6° Electrical Tilt

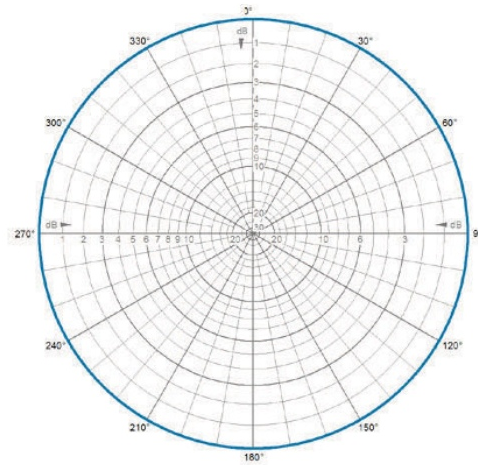
DIAGRAMS

RADIATION PATTERNS



E-Plane | 875 MHz

RADIATION PATTERNS



H-Plane | 875 MHz

