

11 dBd HD omni antenna 740 - 870 MHz, low PIM, null fill

DESCRIPTION

- The 428x 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.

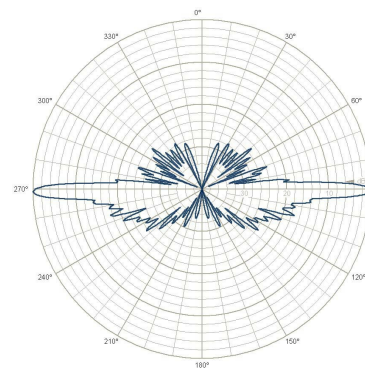
SPECIFICATIONS

Electrical	
Frequency	740 - 870 MHz
Max. Input Power	600 W
Omni Deviation	< ± 1 dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E-Plane	3° ± 1°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	11 dBd (13.2 dBi)
VSWR	< 1.5:1
Lower Sidelobe Control	25% Null Fill
Passive Intermodulation	-153dBc (3rd Order, 2 x Tx @ 43dBm)
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
Mechanical	
Connection(s)	4280.11-780-Tx 7/16 DIN Female 4283.11-780-Tx 4.3/10 DIN Female
Materials	Antenna Base: Aluminium LM25 Shroud: GRP tube 128mm dia. Radiating element: Brass
Mounting Section	Flanged base with 6 hole fixing on 190.5mm PCD
Length	5244 mm / 206.5 in.
Wind Load	946 N (160km/h)
Weight	32 kg / 70.55 lb
Environmental	
Survival Wind Speed	240 km/h
Ingress Protection	IP56

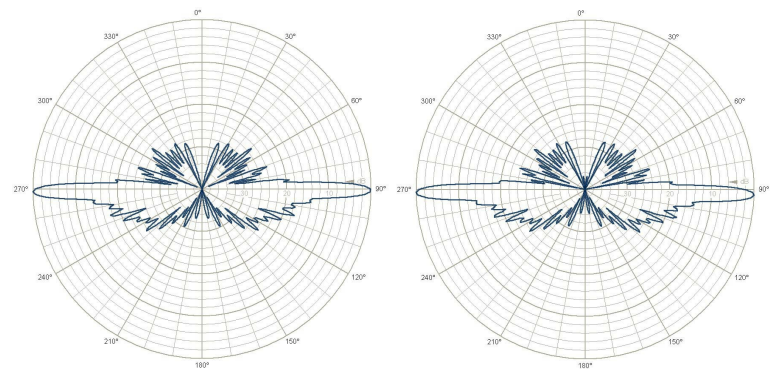


DIAGRAM

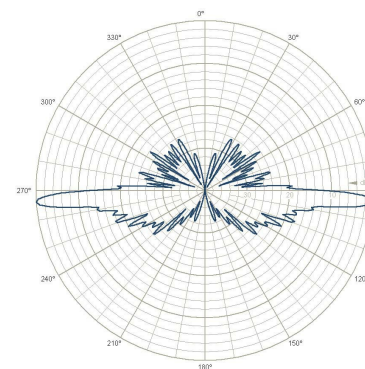
E-PLANE, 780 MHz, 1° TILT



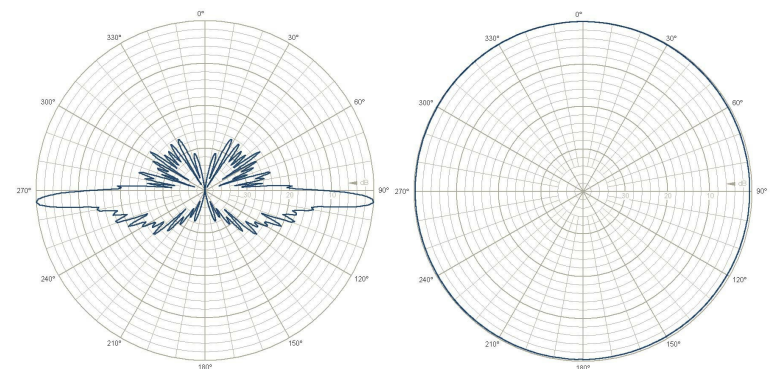
E-PLANE, 780 MHz, 2° TILT



E-PLANE, 780 MHz, 4° TILT



H-PLANE, 780 MHz



ORDERING

Model	Product No.	Description	Frequency
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T0	0° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T1	1° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T2	2° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T3	3° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T4	4° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4280.11-780-T5	5° Tilt, 7/16(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T0	0° Tilt, 4.3/10(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T1	1° Tilt, 4.3/10(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T2	2° Tilt, 4.3/10(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T3	3° Tilt, 4.3/10(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T4	4° Tilt, 4.3/10(f)	740 - 870 MHz
11 dBd HD omni antenna 740-870MHz, low PIM, null fill	4283.11-780-T5	5° Tilt, 4.3/10(f)	740 - 870 MHz
Accessories			
Pole Mount Adaptor	470.8100		

MOUNTING BRACKET

PoleMount Adapter **470.8100** for mounting antenna to 3" - 4.5" diameter pole.

Order antenna kit complete with bracket using part code **428x.11.780-Tx-BRKT**

