

3 dBd HD omni antenna 380-430MHz, low PIM

DESCRIPTION

The 4220 Series omni antenna is designed for demanding applications where a durable and high performance colinear 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 multichannel trunked radio communication systems. The antenna has been designed to withstand lightning strike.

• Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	380 - 430 MHz
Max. Input Power	300 W
Omni Deviation	< ± 1 dB
Polarisation	Vertical
Peak Instantaneous Power (PIP)	25 kW
3 dB Beamwidth, E- Plane	35° ±1°
3 dB Beamwidth, H- Plane	Omnidirectional
Impedance	50 Ω
Gain	3 dBd (5.2 dBi)
VSWR	< 1.5:1
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
Dimensions	1600 (I) x 53 (dia.) mm
Wind Load	142 N (160km/h)
Weight	4 kg / 8.82 lb
Mounting Bracket	2141.01.00.00 (up to ø120mm) (Ordered Separately)

Environmental	
Survival Wind Speed	300 km/h
Ingress Protection	IP56

ORDERING

Туре	Product No.	Description	Frequency
3 dBd HD omni antenna 380-430MHz,	4220.03-405-	0° Electrical	380 - 430
low PIM	T0	Tilt	MHz
3 dBd HD omni antenna 380-430MHz, low PIM	4220.03-405-	6° Electrical	380 - 430
	T6	Tilt	MHz
3 dBd HD omni antenna 380-430MHz, low PIM	4220.03-405-	8° Electrical	380 - 430
	T8	Tilt	MHz
3 dBd HD omni antenna 380-430MHz, low PIM	4220.03-405-	12°	380 - 430
	T12	Electrical Tilt	MHz
Galvanised steel parallel bracket 38- 120mm (PAIR)	2141.01.00.00		
Extruded Parallel Tube Clamp, 50 - 76mm	ETC-250		

