

9 dBd HD omni antenna 380-430MHz

DESCRIPTION

The 4221 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. 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
3 dB Beamwidth, E-Plane	8° ±1°
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	8.7 dBd (10.9 dBi)
VSWR	< 1.5:1
Lightning Protection	Lightning current handling capability: 200 kA According to EN 62305-1 (Test pulse 10/350 µs)

Mechanical		
Connection(s)	N(f)	
Materials	Antenna Base: Aluminium Shroud: GRP tube 53mm dia.	
Mounting Section	Al. tube 63.5 mm dia. x 350 mm long	
Dimensions	5600 (l) x 53 (dia.) mm	
Wind Load	447 N (160km/h)	
Weight	13 kg / 28.66 lb	
Mounting Bracket	2141.01.00.00 (up to ø120mm) (Ordered Separately)	ETC-250 (ø50 to ø76mm) (Ordered Separately)

Environmental	
Operating Temperature Range	-40 to 75 °C
Survival Wind Speed	300 km/h
Ingress Protection	IP56

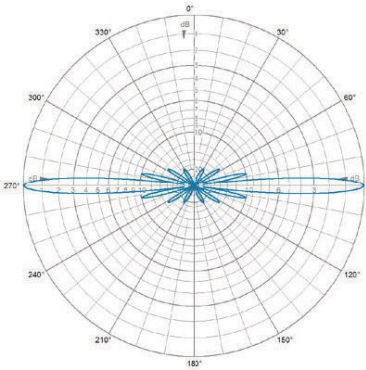
ORDERING

Type	Product No.	Description	Frequency
9 dBd HD omni antenna 380-430MHz	4221.09-405-T0	0° Electrical Tilt	380 - 430 MHz
Galvanised steel parallel bracket 38-120mm (PAIR)	2141.01.00.00		
Extruded Parallel Tube Clamp, 50 - 76mm	ETC-250		



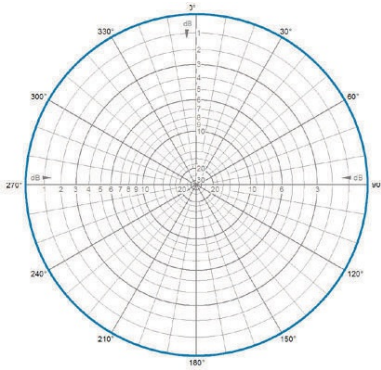
DIAGRAM

RADIATION PATTERNS



E-Plane | 405 MHz

RADIATION PATTERNS



H-Plane | 405 MHz