

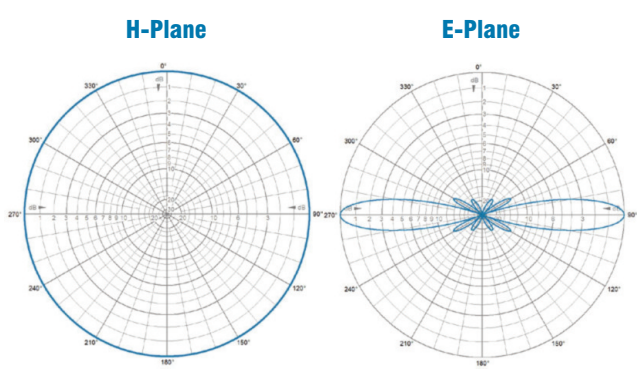
The 4220 Series colinear antenna is designed for demanding applications where a durable and high performance colinear antenna is required. The centre fed dipole design and feed network gives a stable radiation pattern across a wide bandwidth, and allows tilted beam designs to be effectively employed 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 TETRA and other multi-channel communication systems. The antenna has been designed to withstand lightning strike and has a conductor through it's centre to allow a finial to be fitted to it's top cap, and is supplied as standard with a 7/16 female connector.



- Low PIM Certified**
- Lightning Resistant Certified**
- Strength Tested**

<b>Frequency range</b>	<b>4220.06-355-Txx</b>	340 - 370 MHz
	<b>4220.06-405-Txx</b>	380 - 430 MHz
	<b>4220.06-445-Txx</b>	420 - 470 MHz
<b>Input impedance</b>	50Ω	
<b>VSWR</b>	< 1.5:1	
<b>H Plane ripple</b>	< ±0.5 dB	
<b>Maximum input power</b>	300 W CW	
<b>Polarisation</b>	Vertical	
<b>Forward gain</b>	6 dBd (8.15dBi)	
<b>3 dB Beamwidth</b>	E Plane 16°	
<b>Available beamtilts</b>	0 , 6 ,8 and 12°	
<b>Intermodulation</b>	-153dBc (3rd order), 2 x Tx@43dBm	
<b>Lightning protection</b>	To withstand 2.5 x 10 <sup>6</sup> A <sup>2</sup> pulse	
	All metallic parts DC grounded	
<b>Connection</b>	Fixed 7/16 DIN socket in base	
<b>Dipoles</b>	38mm dia. brass tube	
<b>Dipole feeds</b>	PTFE dielectric coaxial cable	
<b>Shroud</b>	GRP tube (grey, RAL7035) 53mm dia.	
<b>Mounting section</b>	Aluminium alloy tube 63.5mm dia. Alocrom 1000	
<b>Weight</b>	8.1kg	
<b>Overall Length</b>	2.85m	
<b>Maximum wind loading @ 45m/s</b>	230N	
<b>Survival wind speed</b>	350km/h	

Free Space Radiation Patterns	Mounting Accessories	Ordering Codes
-------------------------------	----------------------	----------------



Stock code	Beamtilt
<b>4220.06-xxx-T0</b>	0°
<b>4220.06-xxx-T6</b>	6°
<b>4220.06-xxx-T8</b>	8°
<b>4220.06-xxx-T12</b>	12°

Issue 2. E&OE This product is RoHS compliant