

## Omnidirectional VHF Collinears

### VHF 140-174MHz

These VHF omnidirectional fixed position collinears are designed for commercial paging, trunking and general communication systems operating within the VHF 148-174MHz frequency range.

If a power rating higher than 250 watts is required, please contact ZCG for advice.

Mounting clamps, coaxial feeder cable, connectors and other installation accessories are all available separately.

Specifications	G21	G22	G23	G25
Construction	White radome, aluminium mount tube			
Service	Light	Commercial	Commercial 'Inverted Available'	Commercial
Frequency Range	VHF 148-174MHz			VHF 140-174MHz
Maximum Bandwidth	Any 1%	Any 3%	Any 4%	Any 3%
Return Loss, VSWR	Better than -15dB, 1.5:1 across specified bandwidth			
Tuning	Factory	Factory	Factory	Factory
Gain	3 dBd	6 dBd	3 dBd	4.5dBd
Maximum Power	250 Watts	250 Watts	250 Watts	250 Watts
Impedance (nominal)	50 Ohms	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical	Vertical
H Plane	360° omnidirectional, ± 0.5dB			
E Plane	32°	16°	32°	26°
Connector	N-female in base of mount section			
Height (at 148MHz)	3.5 metres	5.6 metres	3.5 metres	4.5 metres
Weight	4Kg	13Kg	4.5Kg	6.5Kg
Projected Area	0.05m <sup>2</sup>	0.16m <sup>2</sup>	0.11m <sup>2</sup>	0.107m <sup>2</sup>
Wind Load at 160kph	6Kg, 0.06kN	19Kg, 0.19kN	10Kg, 0.13kN	12.9Kg, 0.126kN
Mount tube	500mm x 40mm	600mm x 48mm		595mm x 48mm
Mounting Accessories (order separate)	2 x EB1-SS or 1 x UB3-SS	2 x UAM180L (parallel) or 2 x UAM90L (right-angle)		

