

Omni-directional VHF collinears

VHF 140-174MHz

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

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

Specifications	G21	G22	G23	G25
Construction	White fibreglass radome, aluminium mount section and tri-metal plated termination - G23-R ruggedised version available			
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 - or higher power ratings can be supplied upon request			
Impedance - nominal	50 Ohms	50 Ohms	50 Ohms	50 Ohms
DC grounding	Yes	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical	Vertical
H Plane	360° omni-directional, ± 0.5dB			
E Plane	32°	16°	32°	26°
Connector	N-type female in base of mount section - no cable			
Height	3.5 metres	5.6 metres	3.5 metres	4.5 metres
Weight	4.0kg	13.0kg	4.5kg	6.5kg
Projected area	0.05m ²	0.16m ²	0.11m ²	0.107m ²
Wind load at 160kph	6.0kg, 0.06kN	19.0kg, 0.19Kn	10.0kg, 0.13kN	12.9kg, 0.126kN
Mount section	500mm x 40mm		600mm x 48mm	
Mounting hardware (order separate)	2 x UAM180L - parallel or 2 x UAM90L - right-angle			

