

Section 2

BROADCAST ANTENNAS

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G12HP FM Radio Omnidirectional Collinear

Frequency
88 – 108 MHz

Bandwidth
Any 2 MHz

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The G12HP collinear antenna is designed for FM Radio transmit and receive in the 88 to 108 MHz frequency range. Key features include :

- ⇒ Omnidirectional 360 degree radiation pattern
- ⇒ 3 dBd gain
- ⇒ Low wind loading
- ⇒ Easy mounting
- ⇒ Occupies minimal tower space

Model G12HP offers a 2 MHz bandwidth. Specify your centre frequency when ordering and your FM broadcast collinear antenna will be manufactured and tuned accordingly at better than -20 dB return loss across the chosen bandwidth.

Built to full commercial standard for long term reliable service, the radiating elements are enclosed within a robust two piece fibreglass radome providing protection against harsh weather conditions.

An N-Female connector rated for up to 500 Watts input power is located at the base of the aluminium mount tube.

Mast mounting clamps, feeder cable, connectors and other accessories are available separately to complete the installation.

SPECIFICATIONS	G12HP
Construction	Aluminium internals, 2 piece white fibreglass tapered radome, aluminium mount tube
Frequency Range	FM Band, 88 to 108 MHz
Bandwidth (Specify)	Any 2 MHz
Return Loss, VSWR	Better than -20 dB, < 1.2:1 across the bandwidth specified
Tuning	Factory
Gain	3 dBd
Max Input Power	500 Watts
Impedance	50 Ohms
DC Grounding	Yes
Polarisation	Vertical
E-Plane	32°
H-Plane	Omnidirectional 360° ± 0.5 dBd
Cable Tail	None
Connector	N-Female located at base of mount tube
Max Height at at low 88 MHz	6.6 metres <i>At higher frequencies the antenna height reduces</i>
Weight	9.0 kg
Projected Area	0.140 m ²
Wind Load 160 kph	17 kg, 0.170 kN
Mount Tube Dimensions	600 mm long x 48 mm diameter
Mounting Clamps (Not supplied)	2 x UAM180L heavy duty galvanised steel parallel clamps are recommended. Suit round mast between 40 mm and 75 mm in diameter
WARRANTY	2 Years

