



FEATURES

- **Rugged, low height with top loading plate for VHF enhanced gain.**
- **Wide bandwidth covers all commercial VHF and UHF FM frequencies.**
- **Small size only 6 inches height.**
- **Can be used with external diplexer/triplexer for simultaneous multiband operation.**
- **Passive design does not require external tuning.**

21-50-296
Multi-band FM
Communications Antenna
136 to 174 & 380 to 870 MHz



The 21-50-296 is a low height, multi-band, vertically polarized communications antenna particularly suited to latest generation VHF/UHF FM/data link radios and public service radios on helicopters with minimal ground clearance

Designed as a short, top loaded monopole, excellent performance is achieved throughout the frequency range by use of frequency selective matching and decoupling circuits. Mechanical construction uses a glass reinforced thermoplastic shell with foamed-in-place internal elements. A single TNC female connector is fitted to the aluminium base plate and the antenna is DC grounded for p-static protection.

Cooper Antennas Ltd for non-USA customers
Thames Industrial Estate, Unit K, Fieldhouse Lane,
Buckinghamshire SL7 1TB, UK
Tel: +44 (0) 1628 482 360
Email: sales@cooperantennas.com
www.cooperantennas.com



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

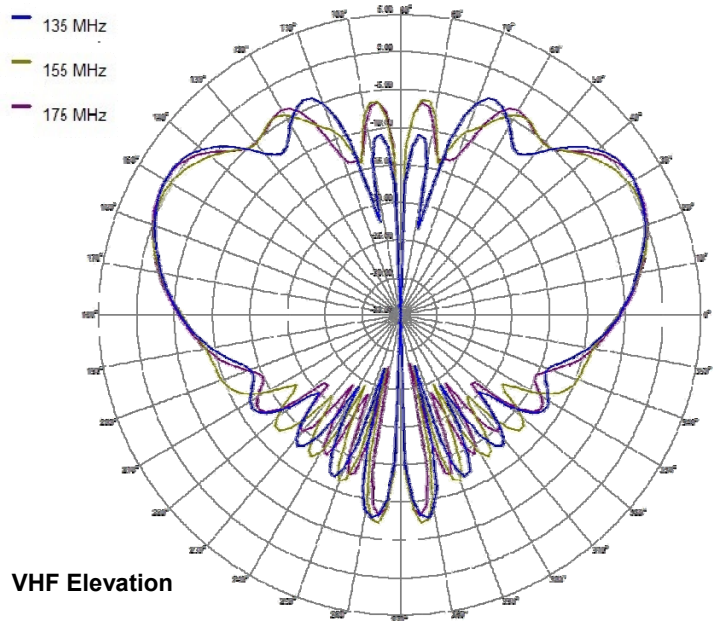
SPECIFICATIONS

Cooper Antennas Model 21-50-296

Multi-Band Communications Antenna

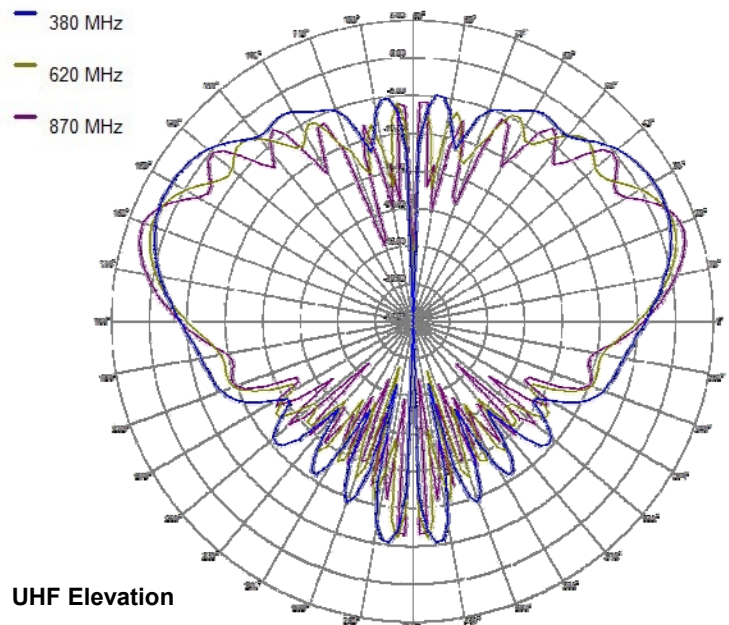
ELECTRICAL

Frequency	136-174 MHz 380-870 MHz
Gain (Typical)	VHF $\geq +1$ dBi average UHF $\geq +2$ dBi average
VSWR	VHF $\leq 3:1$ UHF $\leq 2.5:1$
Impedance (nominal)	50 Ohms
Power	25 Watts max
Polarization	Vertical
Radiation	Nominally Omni-directional in azimuth, elevation see graphs
Antenna RF Connector	TNC Female



MECHANICAL

Height	6 inches max (152 mm)
Mounting Holes	6 x \varnothing 0.2086 inches
Weight	3.0 lbs (1.36 kg)



FINISH

Antenna	Urethane lusterless Black
Base Plate	Unpainted

Other finish options are available. Please specify finish required when ordering.

Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.