



21-50-45
Multi-band FM
Communication Antenna
136 to 174 & 380 to 870 MHz

FEATURES

- **Wide bandwidth covers all commercial VHF and UHF FM frequencies.**
- **Small size only 10 inches height.**
- **25 watts power handling.**
- **Can be used with external diplexer/triplexer for simultaneous multiband operation.**
- **Passive design does not require external tuning.**
- **Designed to environmental requirements for helicopter and subsonic transport aircraft.**



The 21-50-45 is a multi-band, vertically polarized communications antenna particularly suited to latest generation VHF/UHF FM/data link radios.

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 N-type connector is fitted to the aluminium base plate and is DC grounded for p-static protection.

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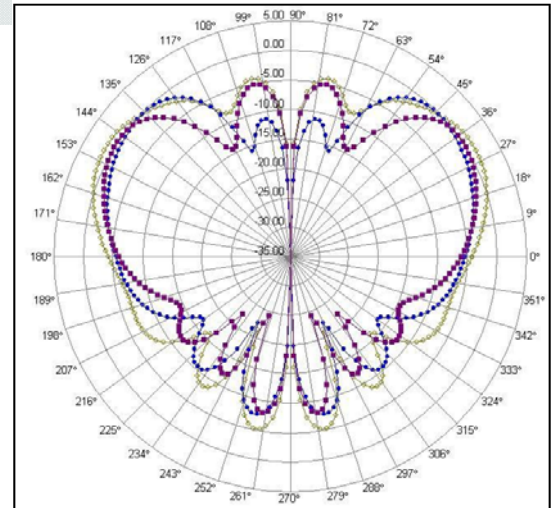
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SPECIFICATIONS

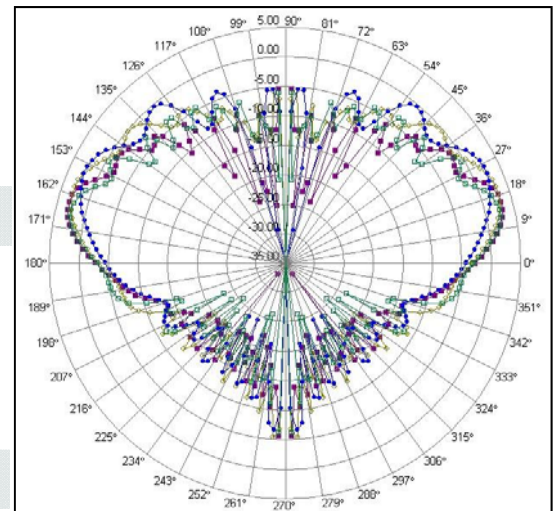
Cooper Antennas Model 21-50-45 Multi-band FM Communication Antenna

ELECTRICAL

Frequency	136-174 & 380-870 MHz
Gain (Typical)	VHF ≥ 0 dBi average UHF ≥ +3 dBi average
VSWR	≤ 2.35:1 136-174 MHz ≤ 2.0:1 380-520 MHz ≤ 2.4:1 760-870 MHz
Impedance	50 Ohms (nominal)
Power Handling	25 Watts max
Polarization	Vertical
Radiation	Nominally Omni-directional in azimuth Elevation-see graphs
Connector	N Female
Temperature	56°C to +71°C



VHF Elevation



UHF Elevation

MECHANICAL

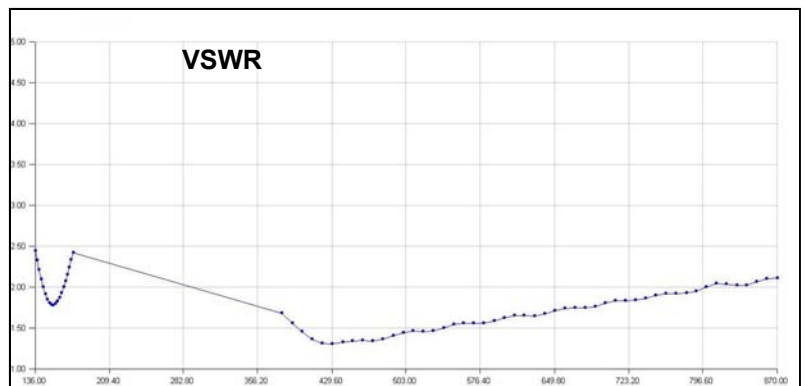
Height	10 inches (254mm)
Weight	1.5 lbs (0.68 kg) max
Fixing holes	6 holes 0.2 inches (5.08mm) diameter nominal - replaces AT256

FINISH

Lusterless Black Urethane

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.