

21-50-30 Airborne Stub Antenna 30 to 512 MHz

FEATURES

- Covers full JTRS VHF/UHF Comms band
- Robust Fiberglass construction
- Lightweight
- Meets AS-3191 lightning strike requirements
- Designed to meet MIL-STD-810

Environmental Specification

- Low profile, 21 inch height
- Omni-directional azimuthal radiation pattern
- 50 Watts power handling
- Gain from –24 to 0 dBi

Covering the full VHF/UHF JTRS frequency band, the 21-50-30 is a lightweight broadband stub antenna intended for helicopter and moderate speed aircraft.

Construction uses an advanced fiberglass covered radiating element bonded into a machined aluminum base.

Unique double trap design ensures good elevation pattern throughout the frequency band and passive matching housed within the base maintains VSWR within 2.5:1 and provides exceptional gain for such a small overall structure.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS Cooper Antennas Model 21-50-30 Airborne Stub Antenna

ELECTRICAL

Frequency	30-512 MHz
Gain (at beam max)	30 MHz -24 dBi 70 MHz -15 dBi 88 MHz -12 dBi 108-174 MHz -3 dBi average 225-512 MHz 0 dBi average
VSWR	30-174 MHz ≤ 2.5:1 225-512 MHz ≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts
Polarization	Vertical
Radiation	Omni directional in azimuth plane
Antenna RF Connector	TNC Female
MEC	HANICAL
Antenna Shell Type	Fiberglass element in aluminium base collar
Height	21 inches (533mm)
Weight	0.9 lbs (0.4kg)
Base Plate Shape	Circular
Fixing Holes	4 x Ø 0.196 inch (5mm) holes, counter sunk 100°.
F	INISH
Antenna	Urethane Lusterless Black
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.