

21-50-220 Wide Band Receiving Antenna 20 to 512 MHz

FEATURES

- Very wide continuous band width
- Strong, aerodynamic composite blade
- Internal matching and radiating elements require no tuning
- Suitable for use up to Mach 0.9
- Single 'N' type connector
- Designed to MIL-STD-810 environmental conditions
- Footprint interchangeable with AS-3191



The 21-50-220 is a passive airborne blade antenna designed for receive only applications on helicopters and subsonic aircraft operating up to Mach 0.9. Electrical design is a "fan" radiating element with selective resistive loading to provide a VSWR match of better than 3:1. The blade is constructed from a high strength, glass loaded moulding containing the radiating elements, is fully sealed and filled with closed cell foam for long term reliability. The single RF connector is supported by an aluminum alloy base plate which should make good electrical contact to the conducting surface upon which the antenna is installed.

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SPECIFICATIONS

Cooper Antennas Model 21-50-220 Wide Band Receiving Antenna

	ELECTRICAL
Frequency	20 – 512 MHz
Gain	≥-40 dBi @ 20 MHz
	≥-10 dBi @ 88 MHz ≥-5 dBi @ 118 MHz
	≥-5 dBi@116 MHz ≥0 dBi@174 MHz
	≥ 0 dBi @ average over 225 - 512 MHz
VSWR	≤ 3.0:1
Impedance (nominal)	50 Ohms
Polarization	Essentially vertical when vertically mounted
Pattern	Nominally omnidirectional in azimuth
Antenna RF Connector	N type Female
	MECHANICAL
Antenna Shell Type	High density foam filled glass loaded shell
Height	14.7 inches max
Weight	3.5 lbs max
Base Plate Shape	Tear drop
Fixing Holes	6 x Ø 0.234 inches (5.9mm) holes, counter bored top side Ø 0.39 inches (9.9mm)
	FINISH
Antenna	Urethane Lusterless Black

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

Unpainted

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.

Baseplate