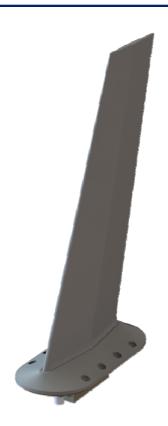


**21-50-102** VHF/UHF/L-Band Antenna 108 to 400 MHz & 960 to 1220 MHz

## **FEATURES**

- Swept back blade
- Isolated V/UHF and L-band outputs
- Suitable for Mach 2+
- Gain in UHF and L-band similar to stand-alone blades
- Excellent Omni pattern thru band
- Drop on replacement for existing UHF/L-Band Blades
- Designed to MIL-STD-810
  environmental conditions



The 21-50-102 is a high speed passive blade antenna providing full VHF, UHF and L-band performance in a double raked, low RCS design. Intended as a bolt on replacement for existing UHF/L-band and VHF/ UHF/L-band antennas, this antenna is built using a high temperature resin/glass composite radome encapsulating a wide band, specially contoured radiating element. A high isolation diplexer is built into the machined aluminium base which is specifically designed to withstand direct lightning strike attachment. Lightning and P-static protection is further enhanced by all elements being DC grounded.

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## SPECIFICATIONS Cooper Antennas Model 21-50-102 VHF/UHF/L-band Antenna

ELECTRICAL	
Frequency	108-174 MHz 225-400 MHz 960-1220 MHz
Impedance (nominal)	50 Ohms
VSWR (typical)	108 - 174 MHz ≤ 2.5:1 225 - 375 MHz ≤ 2.5:1 375 - 400 MHz ≤ 2.7:1 960 - 1220 MHz ≤ 2:1 1000 - 1100 MHz ≤ 1.8:1
Radiation	Omni-directional in azimuth within ± 2.5 dB. Similar to stub in elevation.
Gain (typical)	118 MHz -2 dBi 174 MHz ≥ -1 dBi 225-400 MHz ≥ +1 dBi average 960-1220 MHz ≥ 0dBi average
Power	VHF/UHF: 45 Watts CW L-Band: 2 KW Peak at 0.004 duty cycle
Isolation	Between V/UHF and L-band (bi-directional) $\ge$ 50 dB
Connector	N Female L-band TNC Female V/UHF
MECHANICAL	
Height	13.2 inches
Weight	2.6lbs
Mounting hole	11 hole
FINISH	
Antenna	Urethane Matt Grey Fed-Std-595 36320
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.