



21-50-105
Multi Function VHF / UHF
L-Band Antenna
30 - 512/1600-2000 MHz

FEATURES

- **Covers JTRS Comms and Data Link Frequencies.**
- **Drop-on replacement for 437S-1H and 12-437 Tunable Antenna.**
- **Passive design - requires no external tuning.**
- **High strength glass-epoxy radome**
- **Exceptional UHF and L-band gain**
- **VHF gain similar to AS3191**
- **High power 75 Watts VHF**
100 Watts UHF
200 Watts L-band
- **Designed to MIL-STD-810 environmental**



The 21-50-105 is a high strength, passive, multi function blade antenna designed for aircraft operating up to Mach 0.85.

VHF/UHF performance is comparable to AS3191 antennas but is only 12" in height compared to 14.7" and the antenna includes a highly efficient 1600 - 2000 MHz element for data link.

The antenna has two connectors positioned to allow for drop-on replacement for Collins 437S-1H and Chelton 12-437 tunable blades.

Unique internal element design ensures excellent elevation patterns right through to L-band and the antenna is a fully sealed unit for reliable operation in world-wide conditions of service.

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

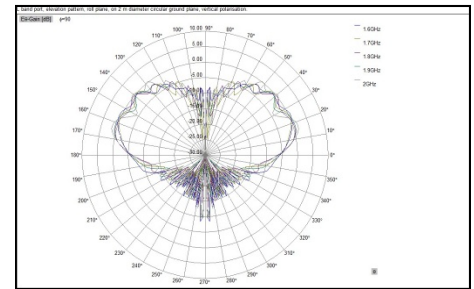
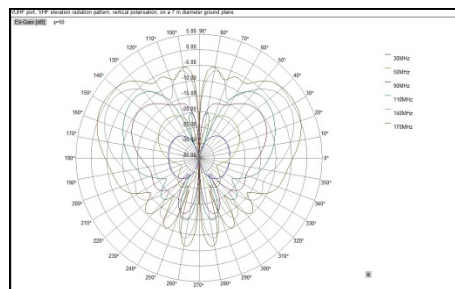
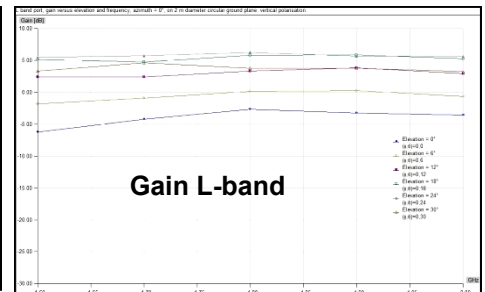
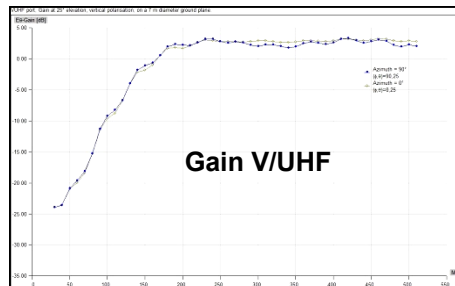
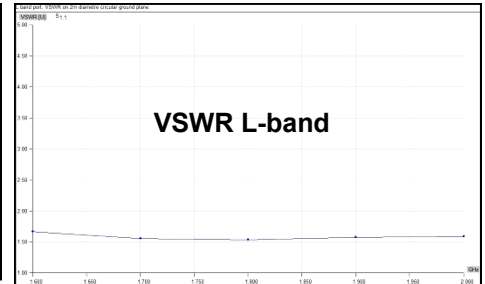
SPECIFICATIONS

Cooper Antennas Model 21-50-105

Multi-function VHF/UHF & L-band Antenna

Electrical Specification

Frequency: 30-512 & 1600-2000 MHz
VSWR : ≤ 3.0:1 max (VHF)
 ≤ 2.5:1 max (UHF)
 ≤ 1.75:1 max (L-band)
Gain (typical): -23dBi @ 30MHz
 -12dBi @ 88MHz
 -2dBi @ 150MHz
 +2.5dBi average
 200-512Mhz
 +2dBi average
 1600-2000MHz
Impedance : 50 Ohms
Power : 75 Watts (VHF)
 100 Watts (UHF)
 200 Watts (L-band)
Polarization : Vertical
Connectors : TNC Female (V/UHF)
 N Female (L-band)
Temperature : -56°C to +80°C
Environmental specifications generally in accordance with MIL-STD-810.

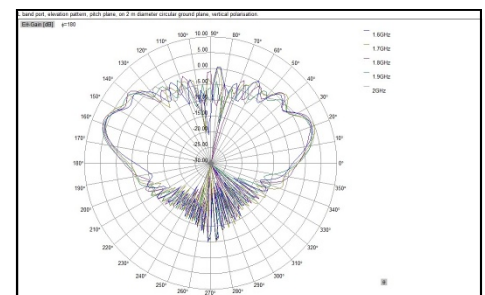
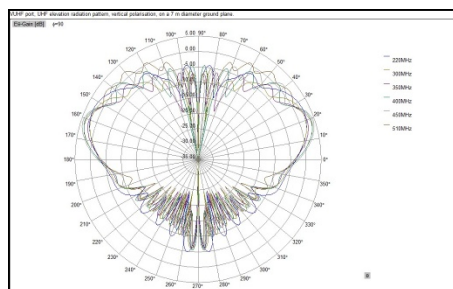


Mechanical Specification

Overall Height : 12 inches
Fixings : 8 holes 0.205 diameter
Weight : 5.5 lbs max

Finish Specification

Antenna : 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.