



22-50-91
Ultra Light-weight
Broadband Airborne Blade
Antenna
30 to 600 MHz

FEATURES

- **Extremely Light Weight**
- **Frequency Selective Matching Network**
- **Drop-on Replacement for AT-1108 and AS3191**
- **Suitable for AN/ARC-231, AN/ARC-210 and Similar Multi-Mode Radios**
- **Designed to MIL-STD-810 environmental conditions**
- **Suitable for Helicopters, low speed aircraft, UAV's and Balloons**



The 22-50-91 is vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 30 to 600 MHz frequency range. The antenna can handle up to 100 Watts of power and require no external tuning.

This wideband, multi-function antenna developed by Cooper Antennas Ltd is particularly suited to tactical military communications. Light weight composites structural technology makes the 22-50-91 suitable for low speed aircraft, UAV's, balloons and helicopters where weight considerations override ruggedness and high side load acceptance is not required.

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

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

SPECIFICATIONS

Cooper Antennas Model 22-50-91

Ultra light-weight Broadband Airborne Blade Antenna

ELECTRICAL

Frequency	30 - 88 MHz, 108 - 174 MHz & 225 - 600 MHz
Gain	30 MHz ≥ -22.5 dBi 88 MHz ≥ -11.0 dBi 108 MHz ≥ -8.0 dBi 130 MHz ≥ -2.5 dBi 174 MHz ≥ 0 dBi 225 MHz ≥ +2.5 dBi 300 MHz ≥ +4.0 dBi 400 MHz ≥ +3.0 dBi 600 MHz ≥ +1.0 dBi
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	75 Watts CW 30 - 88 MHz & 118 - 174 MHz 100 Watts CW 225 - 600 MHz
Polarization	Vertical
Radiation	Azimuth : Omni-directional Elevation : As stub
Antenna RF Connector	TNC Female

MECHANICAL

Antenna Shell Type	Rigid foam/epoxy composites with aluminium alloy baseplate and internal printed radiating element
Height	14.65 inches (372mm) max
Weight	2 lbs
Fixing Holes	6 x Ø 0.234 inches (5.9mm) holes

FINISH

Antennas: 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.