

Top-loaded Multiband Blade Antenna

Key features:

- Gain at 30MHz is > -13dBi, height 9 inches
- Separate L-band operation
- Enhanced match at IFF frequencies

The 12-190-1 and 12-190-2 are Tuneable Blade Antennas intended primarily for airborne applications. They operate over the frequency range of 30-400 MHz.

The 12-190-2 additionally provides, via a separate coaxial connector, with an additional radiating element covering the full L-band 960-1220MHz, with an enhanced match at IFF frequencies.

ELECTRICAL

Impedance	50 Ω
VSWR	< 2.5:1 30-88 MHz < 5.0:1 108-118 MHz < 2.5:1 118-174 MHz < 2.0:1 225-400 MHz < 2.0:1 960-1220 MHz < 1.5:1 1030 + 5 MHz and 1090 + 5 MHz
Gain	30 MHz: -12 dBi 30 MHz > -13.0 dBi 80 MHz > -5 dBi 118 to 174 MHz > -4dBi 225-400MHz 0 dBi average 960-1220 MHz > 0 dBi average
Polarisation	Vertical

MECHANICAL

Dimensions (LxWxH)	386 x 70 x 230 mm
Weight	1.3 kg
Connector	V/UHF: TNC Female L-band: N Female DC: PT02 12-10P

ENVIRONMENTAL

Continuous Operating Temperature	- 57°C Min + 85°C Max
Altitude	50000 ft
Vibration	MIL-STD-810C, Method 514.2, Cat C Curve M

