

Low Profile V/UHF L-Band Tuned Antenna

Key features:

- **Tuneable**
- **Height 235mm**
- **Gain of -14.5dBi at 30MHz**
- **121.5 and 243MHz guard bands**
- **Lightning Protection**

The 12-190-6/1 is a low profile, high efficiency PIN diode tuned antenna operating over the frequency ranges 30-400 MHz and 960-1220 MHz, intended for general airborne application.

In addition the antennas offer a guard facility whereby performance is maintained at 121.5 MHz and 243 MHz when switched to any frequency within specified operating bands.

ELECTRICAL

Impedance	50 Ω
VSWR	30-88 MHz: $\leq 2.5:1$ 108-174 MHz: $\leq 2.5:1$ 225-299.9 MHz: $\leq 2.3:1$ 300-400 MHz: $\leq 2.0:1$ 960-1000 MHz: $\leq 2.0:1$ 1000-1100 MHz: $\leq 1.8:1$ 1100-1220 MHz: $\leq 2.0:1$
Gain	≥ -14.5 dBi at 30 MHz rising to ≥ -4.5 dBi at 88 MHz ≥ -3 dBi average 108- 174 MHz ≥ 0 dBi average 225- 400 MHz ≥ 0 dBi average 960-1220 MHz
Polarisation	Vertical

MECHANICAL

Dimensions (LxWxH)	316 x 71 x 235 mm
Weight	1.59 kg
Connector	30- 400 MHz: TNC female 960-1220 MHz: N femaleDC:
Platform(s)	Air

ENVIRONMENTAL

Standards	MIL-STD-810 D0160C
Continuous Operating Temperature	- 54°C Min + 71°C Max
Altitude	70000 ft
Vibration	MIL-STD-810D Method 514.3, Procedure I

