

V/UHF Passive dual-band blade

Key features:

- **Dual Band**
- **Lightning protection**

The 12-147 antenna is a high efficiency passive blade antenna covering the frequency bands 108-174 MHz and 225-400 MHz and intended for general airborne applications.

The antenna is configured as a broadband fan, passively matched. Resistive padding is included to preserve match at low frequencies. Lightning protection is incorporated within the antenna by using a diverter strip on the radome and a surge arrester at the RF connector.

ELECTRICAL

Frequency Range (MHz)	108-174 MHz 225-400 MHz
Impedance	50 Ω
VSWR	108-118 MHz \geq 6.0 dB (\leq 3.0:1) 118-174 MHz \geq 7.3 dB (\leq 2.5:1) 225-400 MHz \geq 7.3 dB (\leq 2.5:1)
Gain	108-118 MHz > -5 dBi 118-174 MHz > -1 dBi 225-400 MHz > -1 dBi
Polarisation	Vertical
Radiation	Azimuth: Elevation: Essentially omnidirectional Nominally co-sinusoidal
Power Handling	108-174 MHz 30 W CW max 225-400 MHz 40 W CW max

MECHANICAL

Dimensions (LxWxH)	301 x 92 x 400 mm
Mass	1.95 kg
Connector	TNC Female
Platform(s)	Air

ENVIRONMENTAL

	MIL-STD-810 RTCA DO-160
Continuous Operating Temperature	- 40°C Min + 85°C Max
Altitude	25000 ft
Vibration	MIL-STD-810E, Method 514.4, Proc I, Cat 6 mod + Gunfire

