

12-124

CHELTON

Broadband Passive Blade Antenna

Key features:

- Supersonic
- Lightning protection
- Low profile
- PU leading edge strip
- Extended Temperature Range available

The 12-124 is a broadband passive blade antenna dedicated to the frequency bands 108-156MHz and 225-400MHz. The antenna is configured as a broadband fan. The radiating element is fed via a tuned circuit to enhance gain at 108MHz and a frequency-dependent resistive pad network to provide acceptable match at lower frequencies.

ELECTRICAL

Frequency Range (MHz)	108 - 400
Impedance	50 Ω
VSWR	108-118MHz: 3:1 max 118-156Mhz: 2:1 max 225-400MHz: 2:1 max
Gain	108MHz: -9.5 dBi 118MHz: -8.5 dBi 156MHz: -3.5 dBi 225-400MHz: 2dBi avg
Polarisation	Vertical
Radiation	Azimuth Omnidirectional
Power Handling	35



MECHANICAL

Dimensions (LxWxH)	236.5 x 70 x 250 mm
Height Above Base	250 mm
Weight	1.1 kg
Connector	1.1 kg
Platform(s)	Air

ENVIRONMENTAL

	MIL-STD-810D
Continuous Operating Temperature	- 54°C Min + 95°C Max
Altitude	70000 ft
Vibration	MIL-STD-810D Method 514.3 Proc 1 Cat 5

