

20-200-F18LP

Broadband Passive Blade Antenna

30 - 400 MHz

Key Features:

- **Multiband passive**
- **Suitable for high performance aircraft**
- **Lighting protection**
- **Gain \leq -26dBi at 30MHz**
- **Height 312mm (12.3 inches)**

The 20-200-F18LP is a broadband passive blade antenna intended for use over the VHF and UHF communications bands of 30-88 MHz, 108-174 MHz and 225-400 MHz, plus 960-1220 MHz.

It has been designed for full lightning protection and has a mechanical structure that makes it suitable for use on high performance aircraft. It is intended for general airborne applications.



ELECTRICAL

Frequency	30 MHz - 88 MHz 108 MHz - 118 MHz 118 MHz - 174 MHz 225 MHz - 400 MHz
Gain	a) +3.5 dBi at 30 MHz b) +4.0 dBi at 40 MHz c) +5.0 dBi at 76 MHz d) +5.0 dBi at 88, 118, 127.5, 137, 156, 174, 225, 250, 300, 350 and 400 MHz
Polarisation	Predominantly vertical (when mounted vertically)
Radiation Pattern	Omnidirectional in azimuth (nominal)
Power Rating	960-1220 MHz 1.5 kW peak 0.04% duty cycle
Impedance	50 ohm (nominal)
VSWR	30- 88 MHz \leq 2.5:1 108-118 MHz \leq 5:1 118-174 MHz \leq 2.5:1 225-400 MHz \leq 2.5:1

MECHANICAL

Dimensions (LxWxH)	457 x 91 x 312 mm
Weight	1.8 kg (maximum)
Connector	TNC Female

ENVIRONMENTAL

Temperature	Continuous Operating Min: -51°C Continuous Operating Max: 70°C
Altitude	50,000 feet
Standards	MIL-STD-810
Shock	MIL-T-5422, paragraph 4.3
Salt Fog	MIL-STD-810, Method 509.2, Procedure I
Vibration	MIL-STD-810E, Method 514.6, Proc I, cat 5
Humidity	MIL-STD-810, Method 507.2 Procedure III

