

UHF Broadband Antenna

Type 16-11 is a broadband, UHF, blade antenna for transmission and reception of communications/navigation signals over the frequency band 225 MHz to 400 MHz.

The antenna can be used singly or in matched pairs on high speed aircraft, particularly where minimal aerodynamic drag is required.

The antenna is a sleeved unipole, with radiating elements surface coated onto a solid, dielectric, support structure. The antenna is protected externally by coats of polyurethane or epoxy paint.



ELECTRICAL

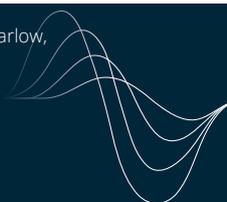
Frequency	225 MHz - 400 MHz
Impedance	50 ohm (nominal)
VSWR	≤ 3.0:1 225 MHz - 235 MHz ≤ 2.0:1 236 MHz - 400 MHz
Power Rating	35 W cw
Radiation	Nominally omnidirectional in azimuth
Gain	> 0 dBi on 9.75 m (nominal) groundplane
Polarisation	Predominantly vertical when mounted vertically
Connectors	N Type Female

MECHANICAL

Dimensions (mm)	208.28 x 196.85 x 53.34 (maximum)
Weight (kg)	0.45 (maximum)
Mounting Configuration	6 holes fixed location

ENVIRONMENTAL

Temperature / Altitude	BS 3G 100, Pt 2, Sect 3:3:2, Grade F1 (modified)
Temperature	Normal Operational: -54°C to + 70°C Occasional Operational: -54°C to +105°C Survival Range: -62°C to + 90°C
Altitude	15240 m
Vibration	BS 3G 100, Pt 2, Sect 3.3.1 MIL-STD-810E, Method 514.4, Proc I, Cats 4, 5 and 6
Shock	MIL-STD-810E, Method 516.4, Procs I and V
Acceleration	BS 3G 100, Pt 2, Sect 3:3:2, Paras 7.2.1 and 7.3.1
Tropical Exposure	BS 3G 100, Pt 2, Sect 3:3:7
Mould Growth	BS 3G 100, Pt 2.1 J, 1985
Salt Mist	BS 3G 100, Pt 2, Sect 3:3:8, Severity 2
Fluid Contamination	BS 3G 100, Pt 2, Sect 3:3:12
Waterproofness	BS 3G 100, Pt 2, Sect 3:3:11
Magnetic Influence	BS 3G 100, Pt 2, Sect 2



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