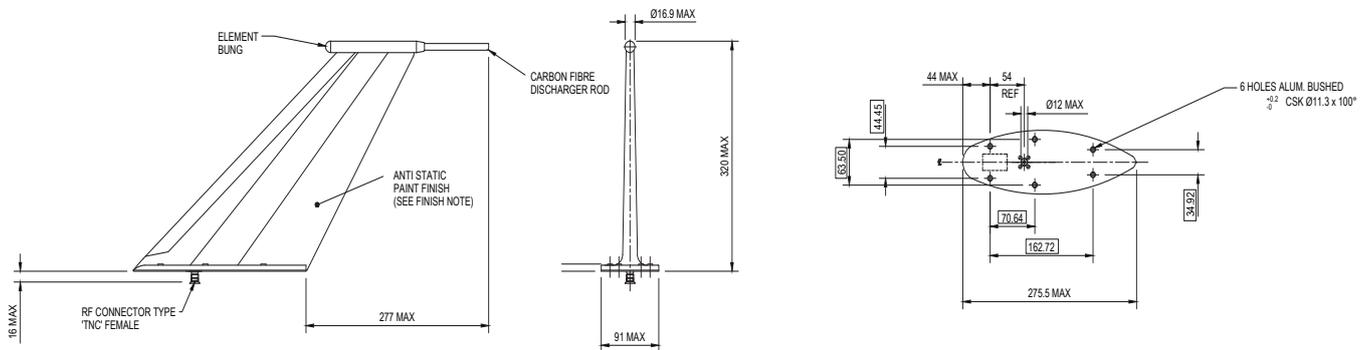


20-200-5/AS

CHELTON

Passive VHF Blade, 100-200 MHz
with anti-static protection



Key features:

- Standard aircraft VHF mount
- Foam filled for high durability
- Special features to minimise static precipitation

The 20-200-5 is a passive, VHF blade intended for use over the civil and military communications band of 100-200 MHz. The 20-200-5/AS incorporates special features to minimise the effects of precipitation static. In particular, the top of the antenna blade contains a carbon-fibre discharge rod of high resistance, which is connected to ground via an overall high resistivity paint finish applied over the entire surface of the blade.

The antenna is foamed-in-place in a glass reinforced plastic shell, which is produced as a one piece moulding. The antenna has 6 fixing holes to conform to standard aircraft VHF installation dimensions. The 20-200-5/AS is painted in an anti-static finish and the carbon-fibre discharger rod is produced from Chelton proprietary material as used on Chelton airline-type static dischargers.

ELECTRICAL

Frequency Range	100-200 MHz
RF Power	50W c.w. max
Polarisation	Vertical
Radiation	Omnidirectional in azimuth
Impedance	50 ohm (nominal)
VSWR	100-117 MHz $\leq 2.5:1$
(Return Loss)	118-152 MHz $\leq 2.25:1$
	153-162 MHz $\leq 2.5:1$
	163-200 MHz $\leq 3.0:1$

MECHANICAL

Height	320 mm (1.06")
Width	275.5 mm (3.5") 552.5mm with rake
Length	88.9 mm (3.5")
Max Weight	1.4 kg (0.55 lbs)
Connectors	TNC Female
Mounting	6 holes fixed location

ENVIRONMENTAL

Vibration	BS 3G 100, Part 2, Section 3:3.1, Category 4
Acceleration	BS 3G 100, Part 2, Section 3:3.6
Temperature Pressure	BS 3G 100, Part 2, Section 3:3.2, Grade 1
Salt Mist	BS 3G 100, Part 2, Section 3:3.8, Severity 1
Waterproofness	BS 3G 100, Part 2, Section 3:3.11, Class A
Fluid Contamination	BS 3G 100, Part 2, Section 3:3.12, Class A
Magnetic Interference	BS 3G 100, Part 2, Section 2