20-22

Conformal L1 & L2 Low Profile GPS Antenna

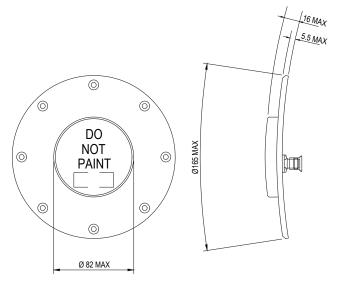


Key features:

- L1 and L2 coverage
- Conformal
- Low profile

The 20-22 GPS antenna is designed to provide operation at both the L1 and L2 frequencies. It is of conformal construction and is supplied to meet local airframe contours. Interface with aircraft is via a TNC (female) coaxial connector.

CHELTON



ELECTRICAL

Frequency Range	L1: 1565-1586 MHz L2: 1217-1238 MHz
Polarisation	Predominantly righthand circular polarization Axial ratio 3 dB max on boresight
Impedance	50 ohm (nominal)
VSWR (Return Loss)	>10.9 dB (<1.8:1)
Radiation	L1 and L2 nominally hemispherical coverage. Zenith Gain Nominally +7 dBiC L1 nominally -2.0 dBiC at 80° off zenith L2 nominally -3.5 dBiC at 80° off zenith Measured on 1m dia ground plane

ENVIRONMENTAL

Temperature	
Operational	-55°C +95°C
Intermittent	-55°C +100°C
Altitude	100,100 ft
Vibration	Sine: MIL-STD-810D, Method 514.3, Proc I Random: DGT 23333-b, Zone 6, Fig 10 Gunfire: DGT 23333-b, zone 6, Fig 17
Random Vibration	DGT 23333-b, Zone 6, Fig 10
Shock	AIR 7306, Section 43 using test levels from NS 20702.
Salt Atmosphere	MIL-STD-810D, Method 509.2, Proc I
Acceleration	MIL-STD-810D, Method 513. 3, Proc I modified. 25.5 g
Blowing Rain	MIL-STD-810D, Method 506.2, Proc I
MECHANICAL	

WECHANICAL	
Height	16 mm (0.63")
Width	166 mm (6.54")
Length	166 mm (6.54")
Max Weight	0.42 kg (0.93 lbs)
Connectors	TNC Female
Mounting	8 holes fixed location