

CRPA

20-8100

Compact, Four Element, Conformal Controlled Radiation Pattern Antenna

Key features:

- Four Element
- L1 + L2 Frequency Bands
- C/A, P(Y) and M-Code GPS Waveform Compatible
- Low Profile, Conformal Design

Chelton's 20-8100 is a compact, passive, four element CRPA antenna fully compatible with C/A, P(Y) and M-Code GPS waveforms and operates across both L1 and L2 frequency bands.

The 20-8100 has been designed for operation in demanding platform environments, to support a wide range of airborne platform types, and is qualified to MIL-STD-810H. The use of highly robust, temperature-stable, patch receiving elements deliver full performance across all platform operational conditions.

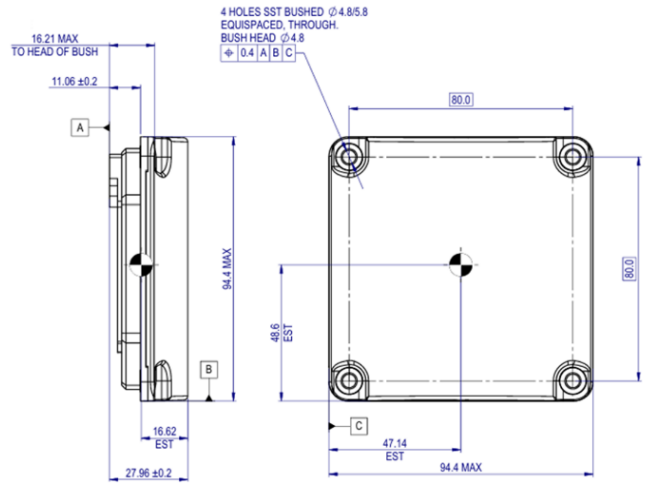
The antenna patch elements are protected from the external environment by a Radome which can withstand surface temperatures of over 300°C for extended periods*.

Product customisation options are available to provide integrated Radome solutions to match the Outer Mold Line (OML) of a platform, ensuring a fully conformal antenna. The integral metallic mounting plate can also be tailored to meet unique platform mechanical mounting requirements.

The 20-8100 can be paired with Chelton's family of advanced Digital Antenna Control Units (DACU) to provide class-leading GPS protection in today's contested GNSS environments.

*Dependent on flight profile

CHELTON



Frequency Bands	GPS L1 & L2
Bandwidth	1215.60 – 1239.60 MHz 1563.42 – 1587.42 MHz
Polarization	RHCP
Radiation	Hemispherical
Impedance	50 Ohm
VSWR	2:1
Number of Patch Elements	4
Connectors	SMP Male (4 off)
Max Weight	300g
Mounting	4 Mounting Points
Qualification	MIL-STD-810H