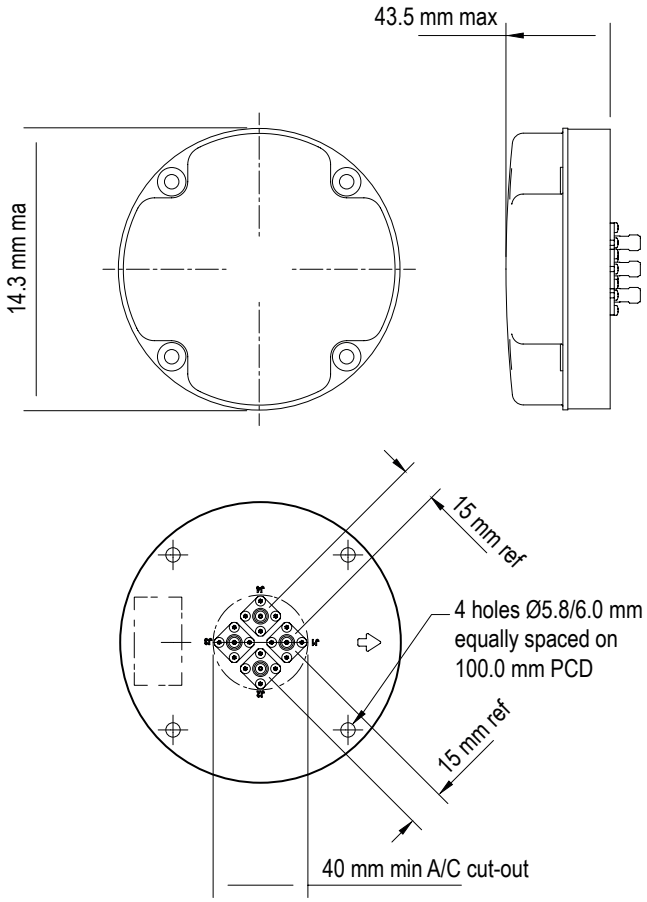
20-7009

Four Element Active CRPA Antenna GPS L1/L2 (P & M Code)

CHELTON



Key features:

- **4 GPS Patch Elements**
- **Interference and Jamming Resistant**
- **Small and light**

The 20-7009 Four Element CRPA Antenna is a miniature four element Global Positioning System (GPS) Controlled Reception Pattern Array (CRPA) antenna designed primarily for airborne rotary wing and ground-based operations.

The 20-7009 consists of four light-weight, temperature stable radiating elements which operate with nominally hemispherical coverage in the GPS L1 and L2 bands.

The array is available in a variety of options, including passive and active configurations. The active configuration contains four low-noise amplifiers protected by filters, providing rejection of unwanted out-ofband signals, and limiters which provide protection from high power signals.

The active CRPA is designed to work in conjunction with a compatible Chelton Digital Antenna Control Unit (4-channel 7-6005, 8-channel 7-6008), which houses the anti-jam electronics functionality.

ELECTRICAL

Frequency Range	GPS L1, L2, P, M-Code
LNA Gain	28 dB (nominal)
LNA Noise Figure	≥ 3.0 dB @ +23°C

ENVIRONMENTAL

Environmental	MIL-STD-810G
EMC	MIL-STD-461F
Lightning	MIL-STD-464A, Zone 1C

MECHANICAL

Height	43.5 mm (1.71”)
Width	114.3 mm (4.5”)
Length	114.3mm (4.5”)
Max Weight	0.5 kg (1.1 lbs)
Connectors	SMA Female (4 off)
Mounting	4 holes fixed location

The Chelton Centre, Fourth Avenue, Marlow, Buckinghamshire, SL7 1TF, UK
T: +44 (0)1628 472072
E: info@chelton.com
W: chelton.com