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N202 SERIES GPS CONTROLLED RECEPTION PATTERN ANTENNA (CRPA)

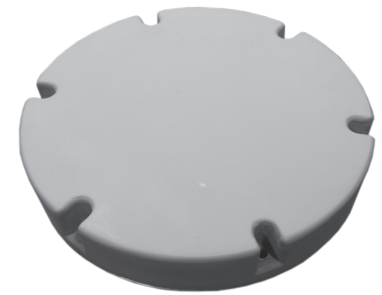
CUTTING-EDGE TECHNOLOGY

The N202 Series GPS CRPA leverages antenna element technology from munitions antenna developments. It provides a smaller diameter, reduced-size seven-element aperture for anti-jam GPS reception over the full military GPS M-code bandwidth. The N202 dimensions are a mere 7.25 inches in diameter and approximately 1.2 inches tall (connectors excluded).

The antenna assembly is a seven-element antenna aperture. It is designed to receive right-hand circularly polarized (RHCP) radiated signals from NAVSTAR GPS satellites and couple the radio frequency signal to the antenna electronics (supplied by others) via seven coaxial cables. The seven-element array is used to adaptively steer nulls in the presence of interfering jamming signals. The antenna assembly contains the antenna elements, radome, housing and SMA female connectors.

Microstrip patch type radiators provide a low-profile package. A hybrid feed incorporated in each element allows operation over a wide temperature band without the temperature induced detuning often associated with such patch elements. The N202 is for platforms such as unmanned aerial systems, helicopters and land vehicles.

ELECTRICAL	
Frequency range	1227.6 ± 12.0 MHz 1575.42 ± 12.0 MHz
VSWR	<2.2:1 max, 2.0:1 typical
Gain	L1 > -2.5 dBic over upper 140° cone L2 > -5.0 dBic over upper 140° cone
Polarization	RHCP
Null depth	>20 dB typical
Radiation pattern	Hemispherical
Power handling	Receive only
MECHANICAL	
Weight	2.0 lbs max
Military	MIL-E-5400 MIL-STD-202 MIL-STD-810
Finish	Gray



KEY FEATURES

- > Seven-element design
- > Low profile
- > Reduced aperture size compared to standard seven-element CRPA
- > Ideal for unmanned aerial systems and helicopter applications
- > Designed for use with antenna electronics equipment such as:
 - GPS Anti-jam System (GAS-1)
 - Advanced Digital Antenna Production (ADAP)
 - GPS Spatial Temporal Anti-jam Receiver (GSTAR)
 - Digital Integrated GPS Anti-jam Receiver (DIGAR)
 - Other null-steering electronics

For further details and specifications, contact the factory at antenna.info@L3Harris.com

N202 Series GPS CRPA

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Non-export-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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