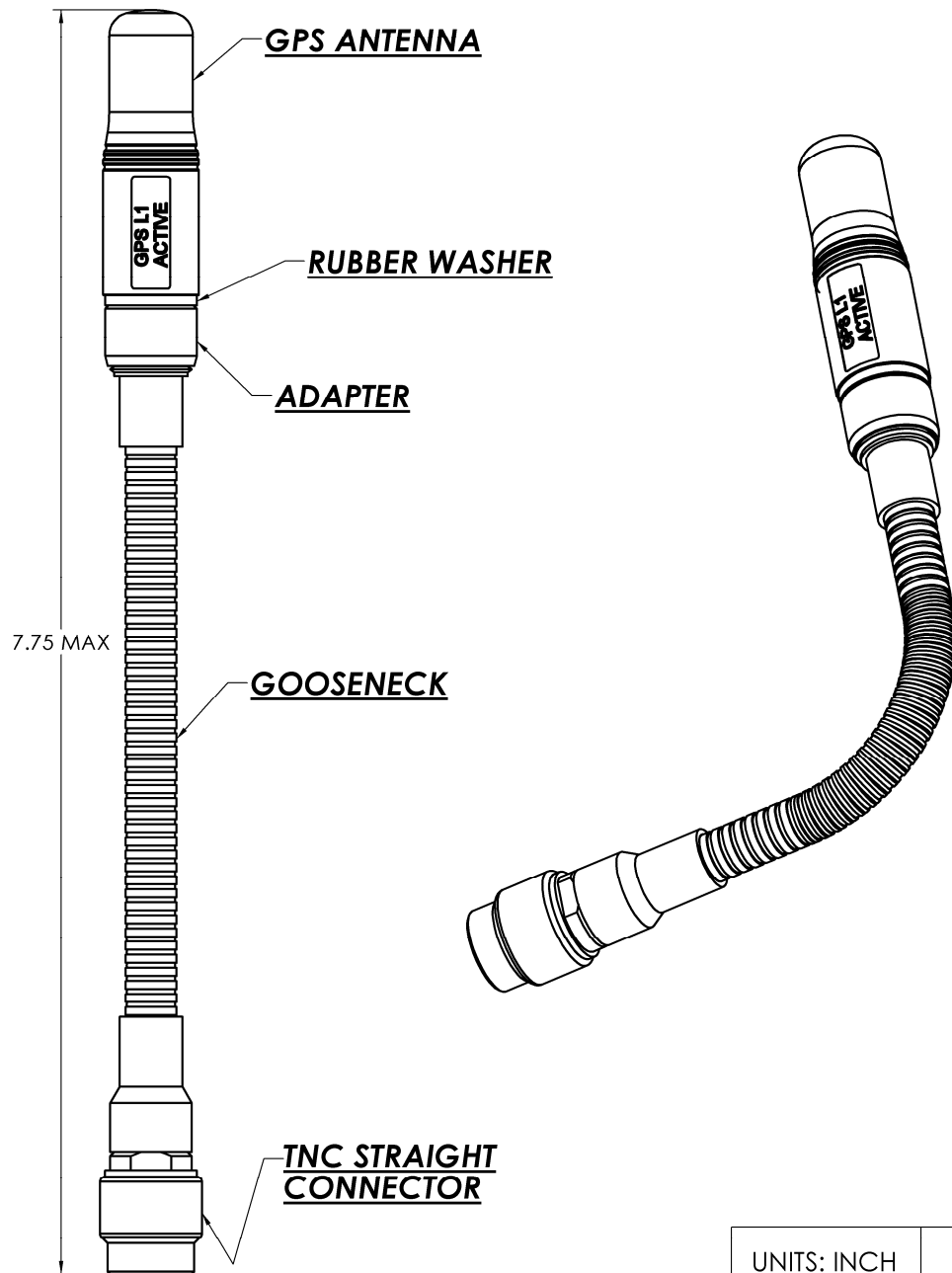


ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : Antenna



UNITS: INCH	
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All dimensions are inches

Issue : 1225

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : **Antenna**

ELECTRICAL CHARACTERISTICS

Frequency :.....	GPS L1 (1575.42) MHz
Nominal Impedance:.....	50 Ω
VSWR:.....	2.5:1 Max
Gain:	
Radiating Element only :	- 5 dBic ± 1 dB
Active Gain (LNA) – Fig 1 :.....	16 dB
Polarization :	RHCP
Radiation Pattern:.....	Hemi-spherical
3 dB Beamwidth (both planes) :	120° x 120°
P1 dB compression	-14 dBm
Noise Figure (LNA) :.....	1.5 dB
DC Input Power :	2.7 V Min
	3.5 V max
Connector type :.....	TNC Male

MECHANICAL CHARACTERISTICS

Antenna Color :.....	Black matte
Antenna Material :.....	PEI
Weight :.....	.25 Lb
Overall length :	7.75 Inch (Max)
Articulation:.....	Gooseneck Black
Size - Coil OD....	.31 Inch
Stiffness Rating...	Heavy Duty
Gooseneck Flexibility:	±90 Degrees
	500 Cycles

Issue : 1225

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ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : **Antenna**

ENVIRONMENTAL CHARACTERISTICS

Product Compliant with the RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronics Equipment) requirements

Operating Temperature :.....	-40 / +71 °C
	MIL -STD-810F, Methods 501.4 & 502.4, Procedure II
Storage Temperature :.....	-40 / +71 °C
	MIL-STD-810F, Methods 501.4 & 502.4, Procedure I
Humidity (Non-condensing):.....	95% Relative Humidity
	Through Operating Temp range MIL-STD-810F, Methods 507.4
Shock :	20g Peak Acceleration
	11ms Duration
	MIL-STD-810F, Method 516.5, Procedure I
Drop Test :	1 Meter
	Top & Sides onto Concrete Floor
Immersion :	2 Meters (sea water)
	30 Min
	MIL-STD-810F, Meth. 512.4, Proc I
Altitude (Operational) :.....	30,000 Ft
	MIL-STD-810F, Method 500.4, Procedures I & II

ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : Antenna

ELECTRICAL CHARACTERISTICS:

Pre-Amp Circuit alone

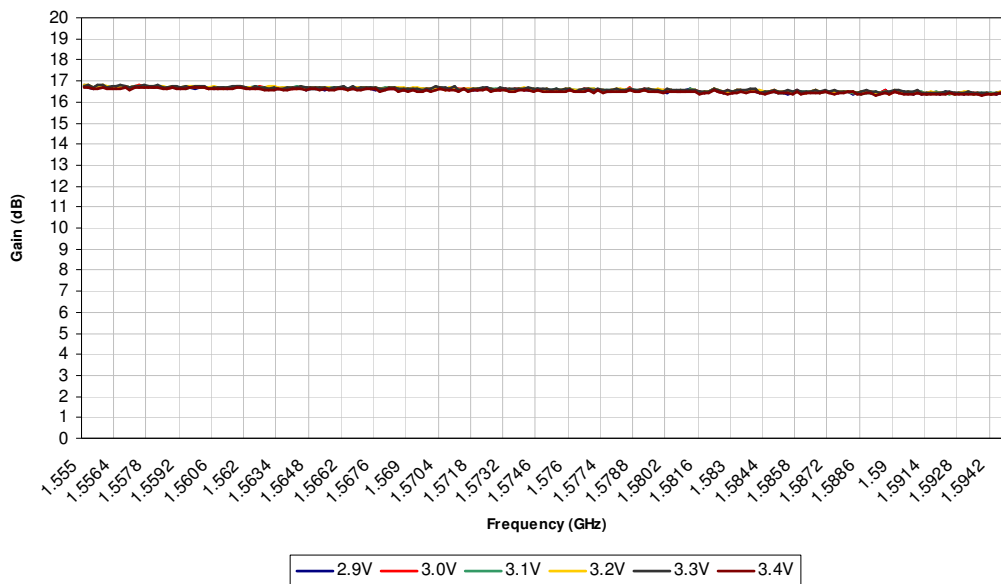


Fig 1: LNA Gain vs DC input voltage

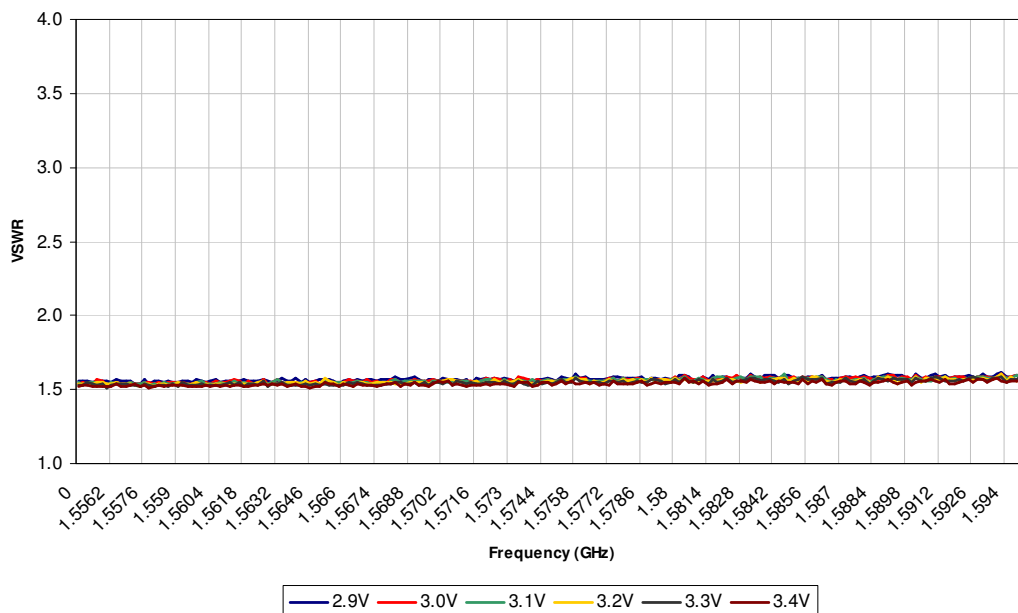


Fig 2: Output VSWR vs DC input voltage

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ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

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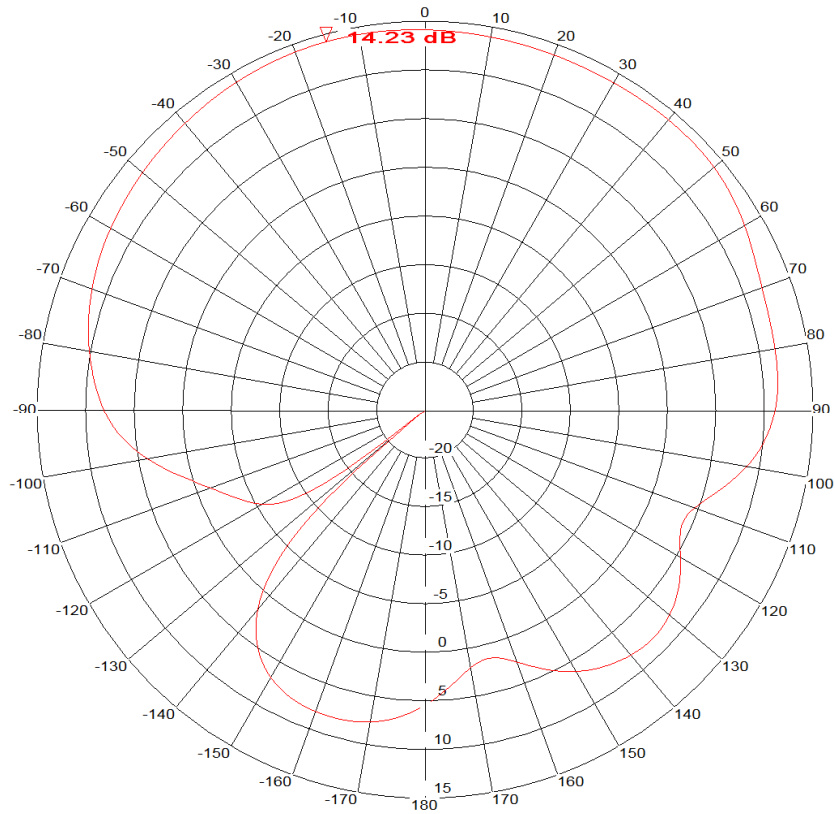


Fig 3: Typical RHCP @ 1575 MHz

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