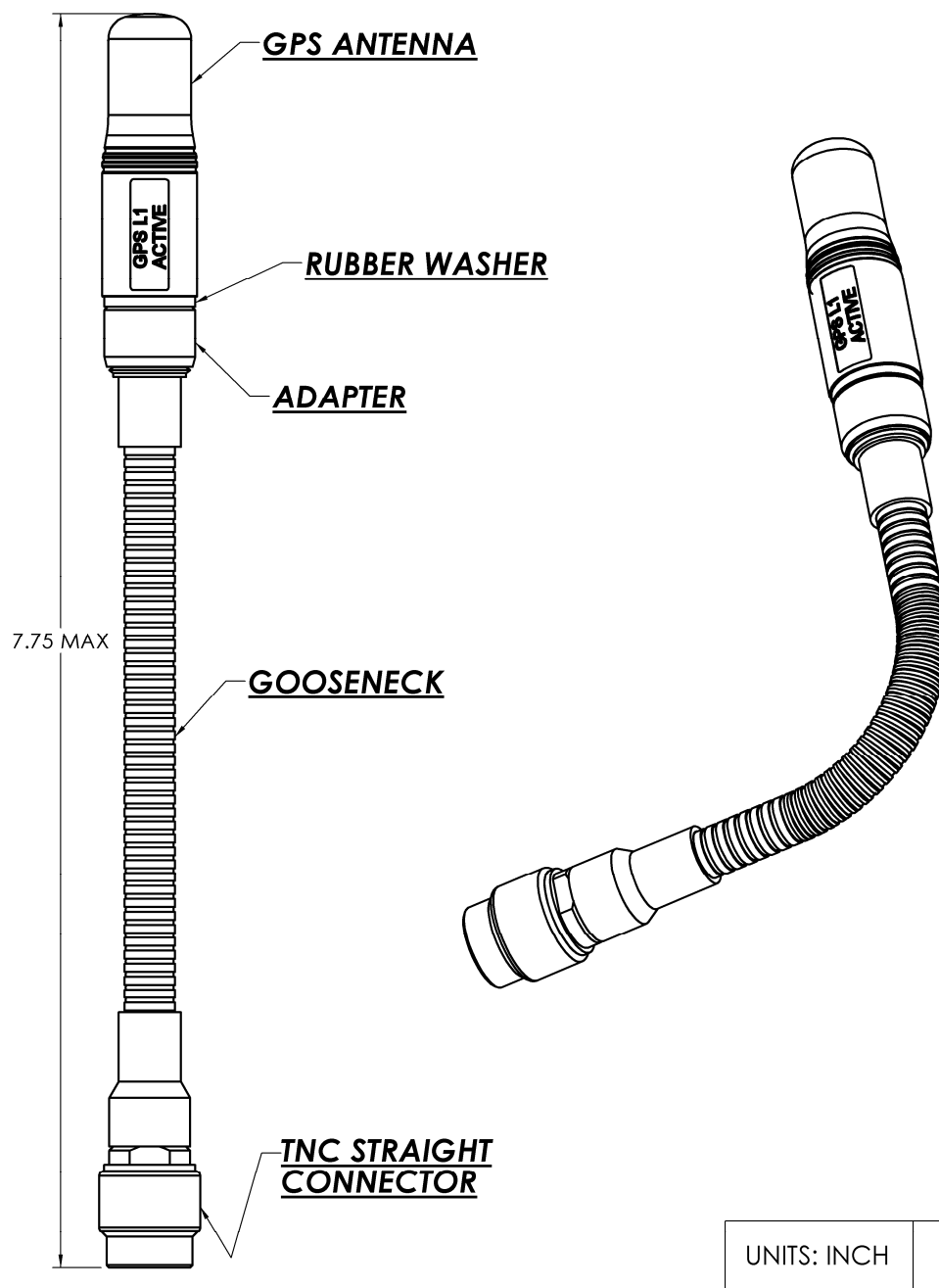


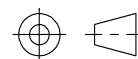
ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : Antenna



UNITS: INCH



All dimensions are inches

Issue : 1225

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

RADIAL

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 $\pm$ 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:	$\pm$90 Degrees
	500 Cycles

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****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

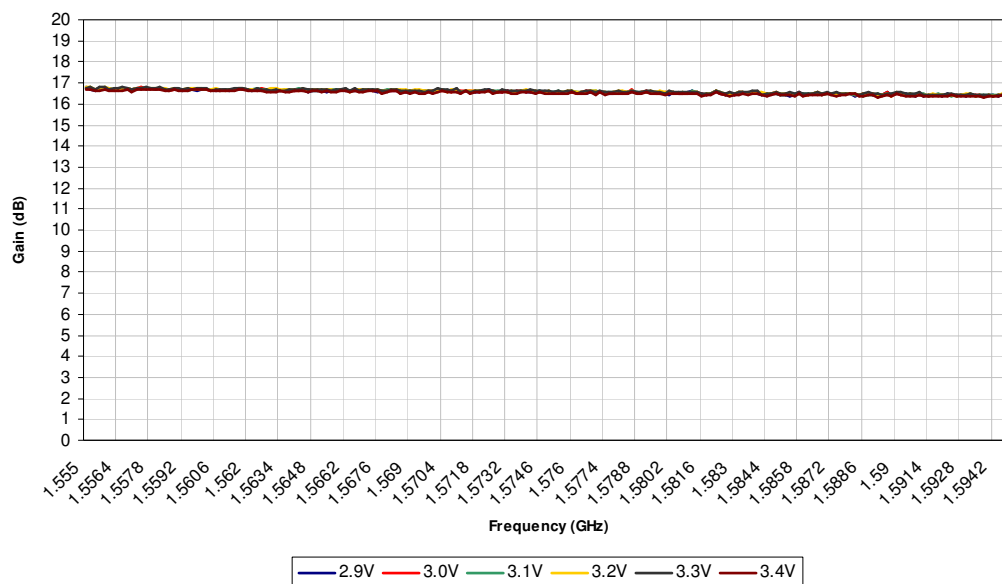
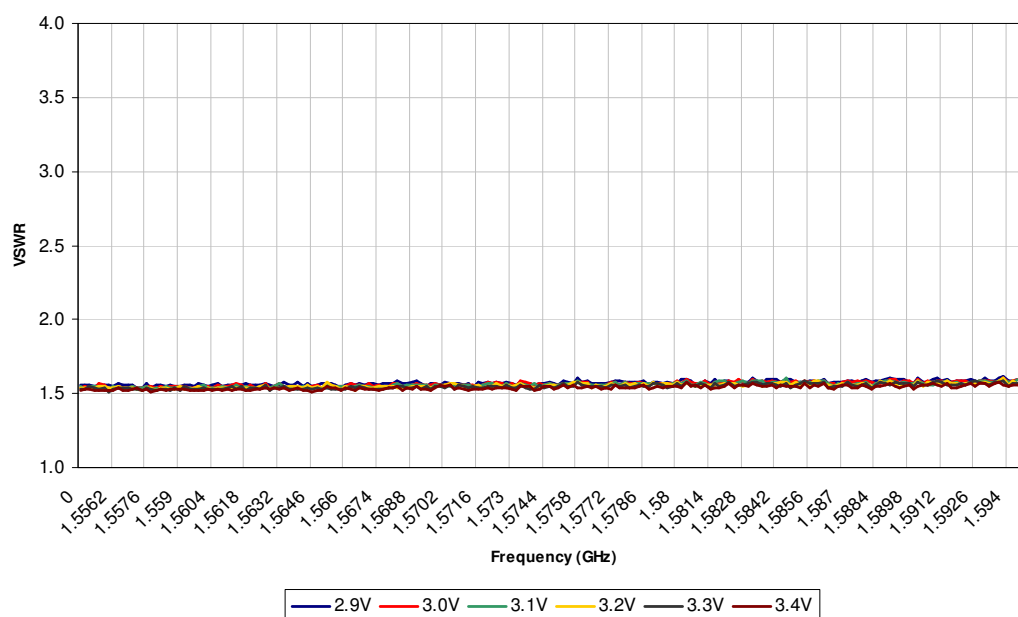
Issue : 1225

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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****Issue : 1225**

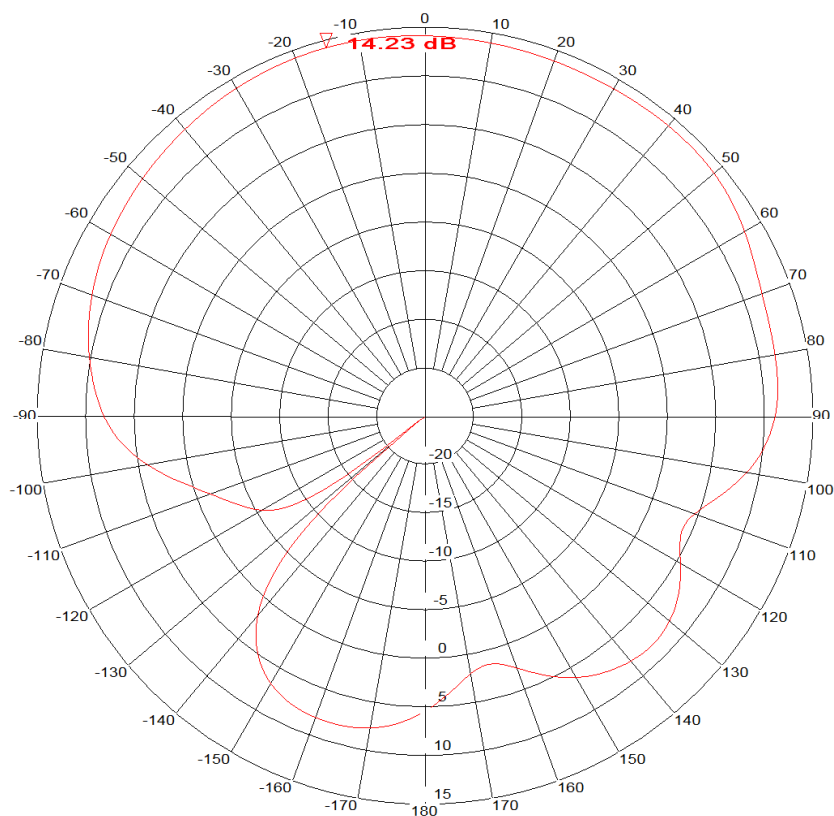
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ARTICULATED, ACTIVE GPS L1 ANTENNA

MD11-016

Series : Antenna

**Fig 3: Typical RHCP @ 1575 MHz****Issue : 1225**

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

RADIAL 

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