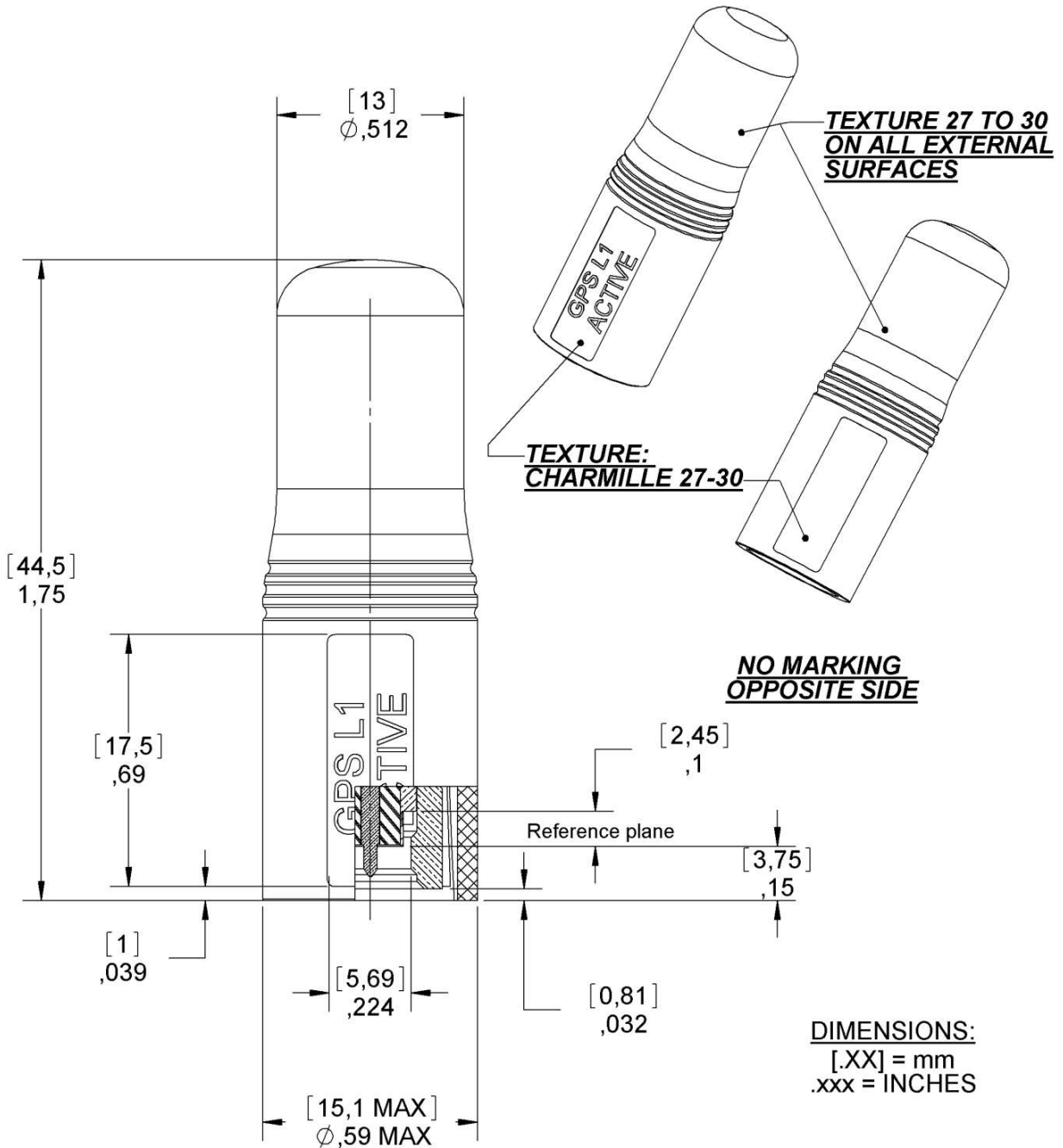


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All dimensions are in [mm] / inches

DIMENSIONS:
 [.XX] = mm
 .xxx = INCHES

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ELECTRICAL CHARACTERISTICS

Frequency :	GPS L1 (1575.42)	MHz
Nominal Impedance :	50	Ω
VSWR :	2.0:1	Typ
	2.5:1	Max
Gain :		
Radiating Element only :	-3	dBic ±1dB
Active Gain (LNA) :	16	dB typ
Polarization :	RHCP	
Radiation Pattern:	Hemi-spherical	
3 dB Beamwidth (both planes) :	120° x 120°	typ
P1 dB compression :	-14	dBm
Noise Figure (LNA alone) :	1.5	dB max
Supply Voltage :	3.3	V typ.
	3.0	V min
	3.5	V max
Current consumption :	8	mA typ
Connector type :	Male SMA	

MECHANICAL CHARACTERISTICS

Plastic radome :	PEI
Color :	BLACK
Texture :	Charmille 30
Weight :	30 g
Overall length :	<1.77 in <45 mm
Max Diameter	0.59 in 15.1 mm
RoHS Compliant:	Yes

ENVIRONMENTAL CHARACTERISTICS

Operating temperature :	-32/+55 ° C IAW MIL-STD-810G meth 501.5 & 502.5, proc II
Storage temperature :	-55/+85 ° C IAW MIL-STD-810G meth 501.5 & 502.5, proc I
Temperature Shocks	3 cycles -40/+70°C IAW MIL-STD-810G meth 503.5 , proc I
Altitude :	40,000 ft IAW MIL-STD-810G meth 500.5, proc I
Humidity :	Induced Hot Humid IAW MIL-STD-810G meth 507.5, proc II
Immersion (mated to radio)	20m, for 2h IAW MIL-STD-810G meth 512.5, proc I
Salt Fog :	96h (4x24h alternating wet & dry) IAW MIL-STD-810G meth 509.5
Solar Radiation:	10 cycles, 20/4h sun/dark IAW MIL-STD-810G meth 505.5, proc II
Transit Shocks :	26 drops from 1.2m high IAW MIL-STD-810G meth 516.6, proc IV
Fluid Contamination	Table 504.1-II MIL-STD-810G Meth 504.1, proc II

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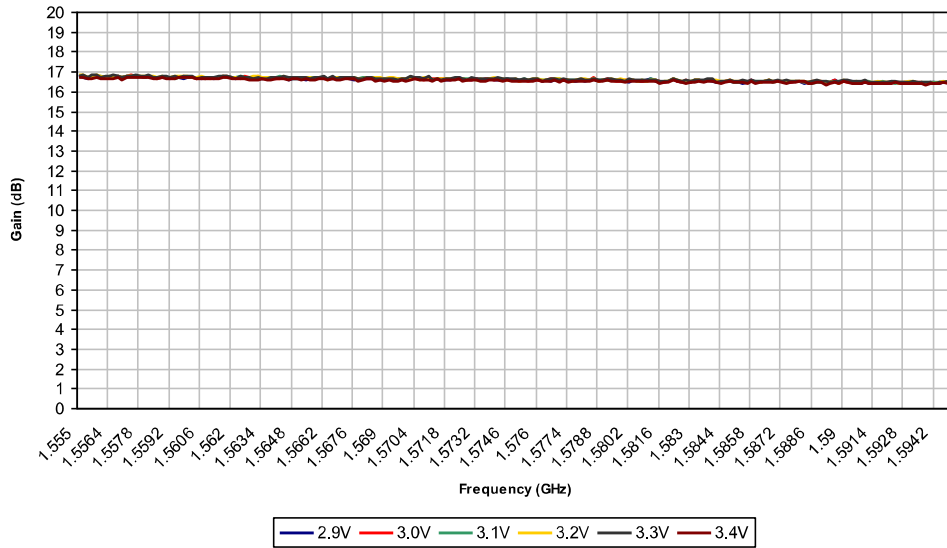


Figure 1: LNA Gain vs DC input voltage

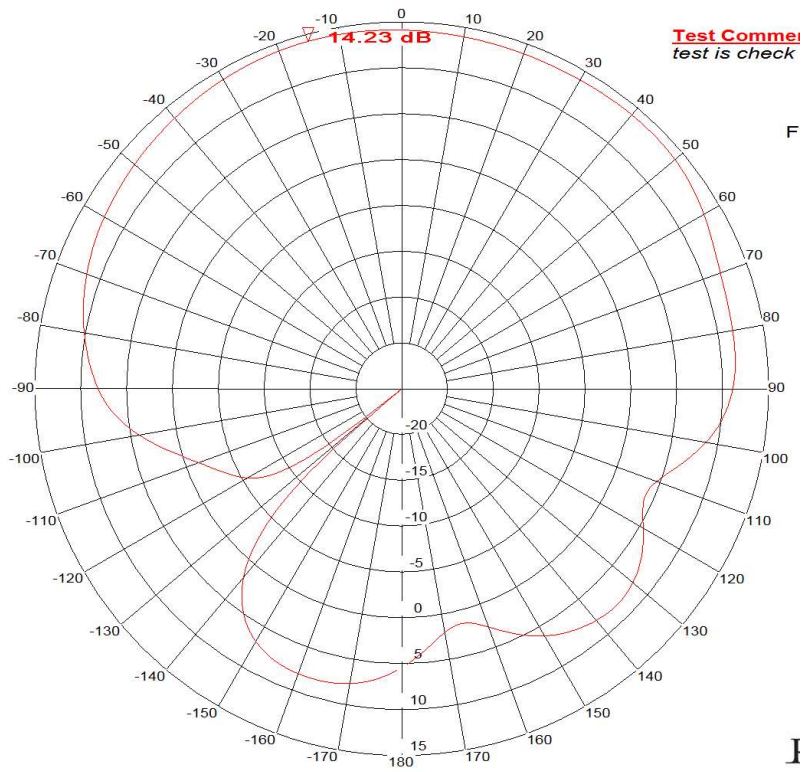


Figure 3: Typical elevation pattern in free space (RHCP)