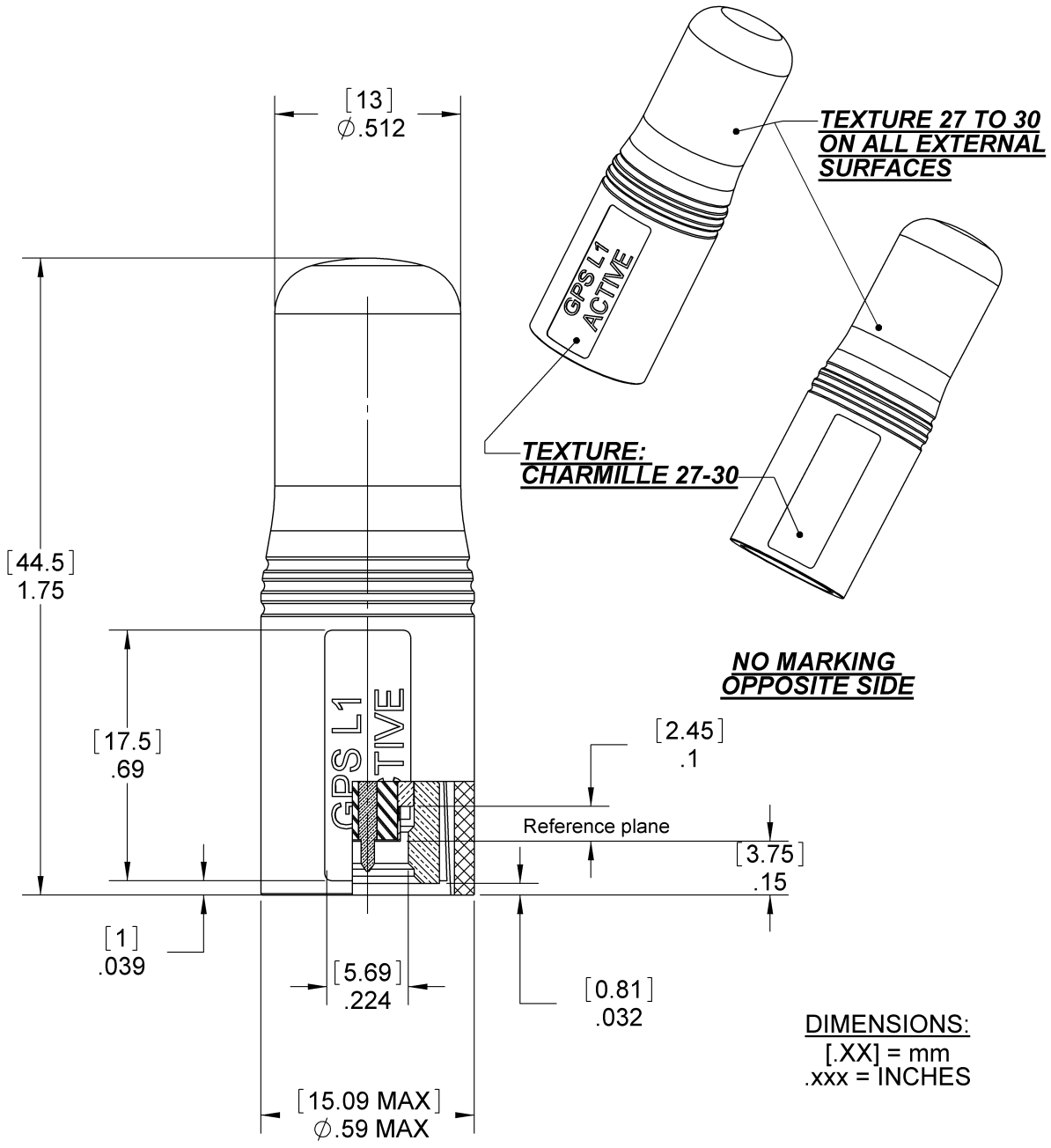
GPS L1 ACTIVE ANTENNA - ROHS

SMA MOUNT

R380.300.013

Series : **ANTENNA**



All dimensions are in mm / [inches].

Issue : 1111

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

RADIALL

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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 :	**SMA Plug**	

MECHANICAL CHARACTERISTICS

Plastic radome :	**Ultem 1000**	
Color :	**Black**	
Weight :	**30**	g
Overall length :	**< 1.77**	in
	< 45	mm

ENVIRONMENTAL CHARACTERISTICS

Product in Conformity with the ROHS requirements (Restriction of Hazardous Substances)

Operating temperature :	**-40 to +71**	° C
Temperature Rate :	**5°C/mn**	
Humidity		
Relative :	**5% to 100%**	Condensing
Absolute :	**60**	g/m^3
Immersion :	**20**	m

Issue : 1111

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ELECTRICAL CHARACTERISTICS:

Pre-Amp Circuit alone

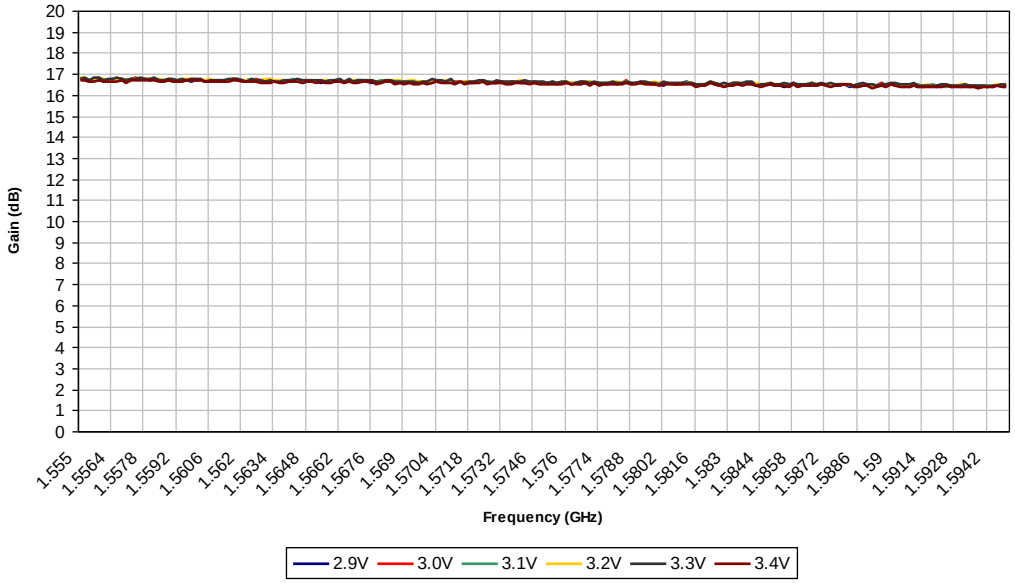

Fig 1: LNA Gain vs DC input voltage

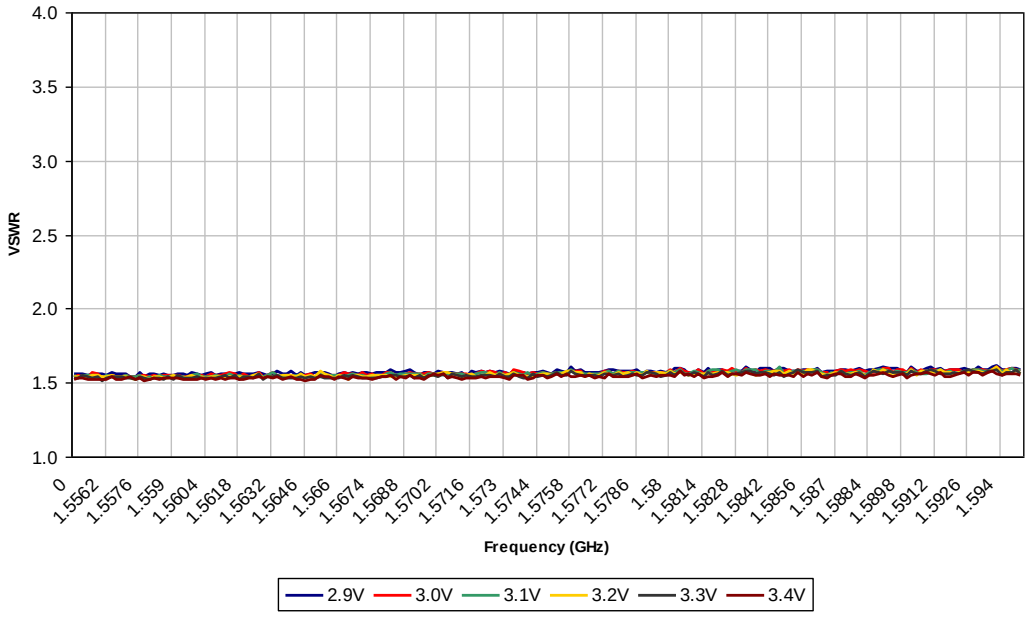

Fig 2: Output VSWR vs DC input voltage

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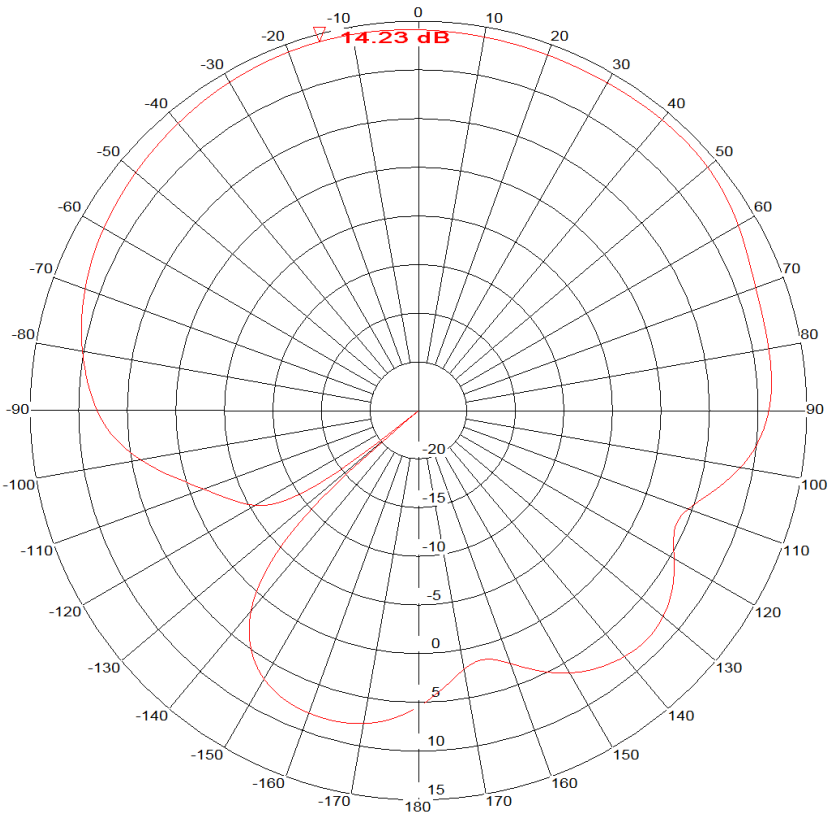

Fig 3: Typical RHCP @ 1575 MHz

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