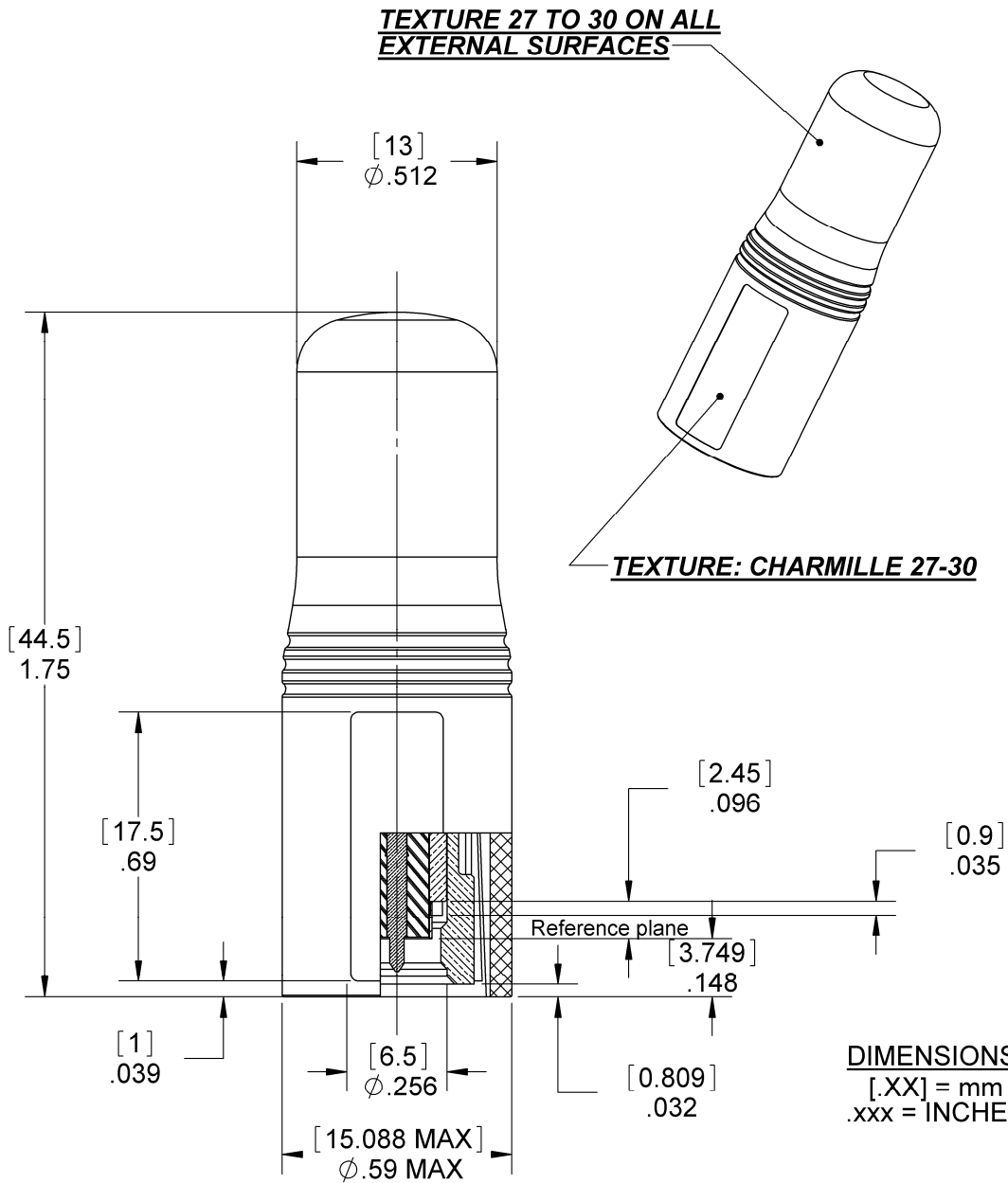


GPS L1 PASSIVE ANTENNA - ROHS

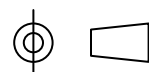
R380.300.014

SMA MOUNT

Series : ANTENNA



All dimensions are in mm / [inches].



Issue : 1143

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



GPS L1 PASSIVE ANTENNA - ROHS
SMA MOUNT

R380.300.014
Series : ANTENNA

ELECTRICAL CHARACTERISTICS

Frequency :.....	GPS L1 (1575.42) MHz
Nominal Impedance:.....	50 Ω
VSWR:.....	3:1 Max
Gain: Radiating Element :.....	- 5 dBic \pm 1 dB
Polarization :.....	RHCP
Radiation Pattern:.....	Hemi-spherical
3 dB Beamwidth (both planes) :.....	120° x 120°
Axial Ratio (typical @ zenith)	4 dB
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



GPS L1 PASSIVE ANTENNA - ROHS

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CURVES

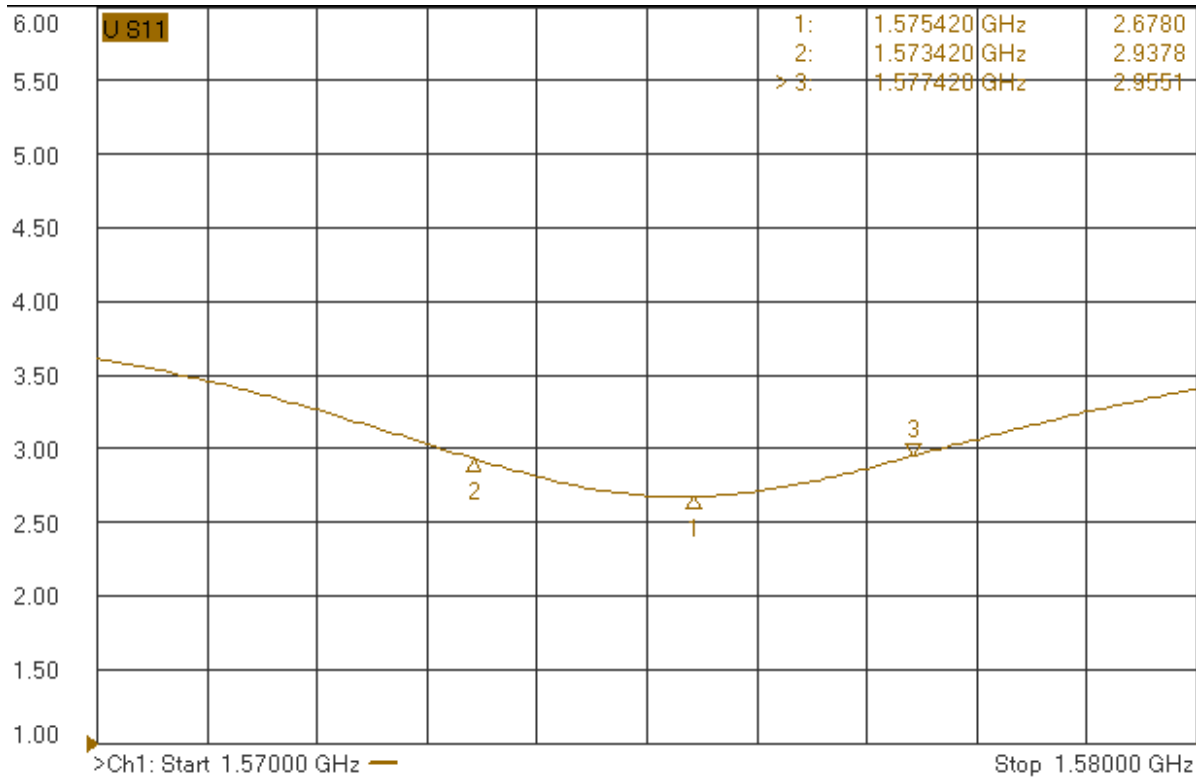


Fig 1: VSWR measured on Hand-Held Chassis

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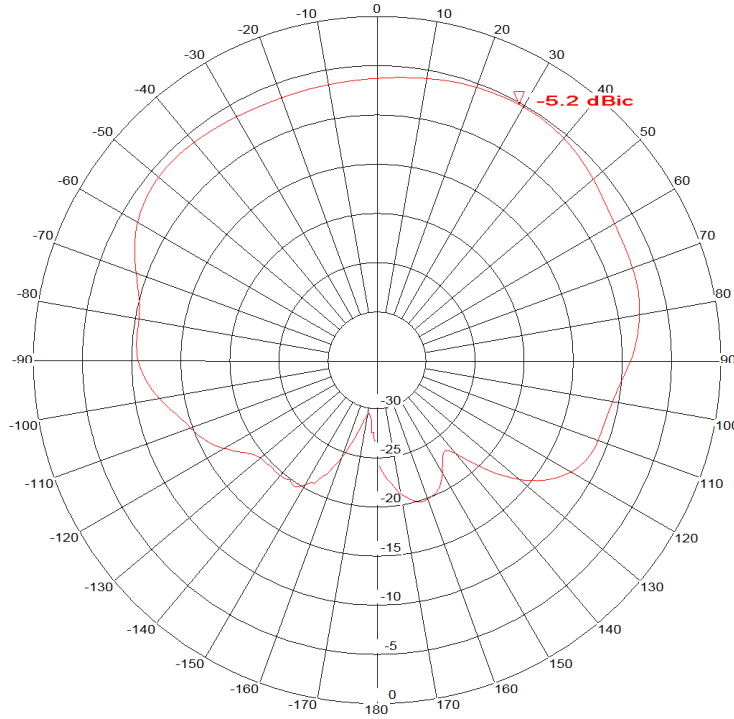


Fig 2: Typical RHCP Radiation Pattern at 1574 MHz

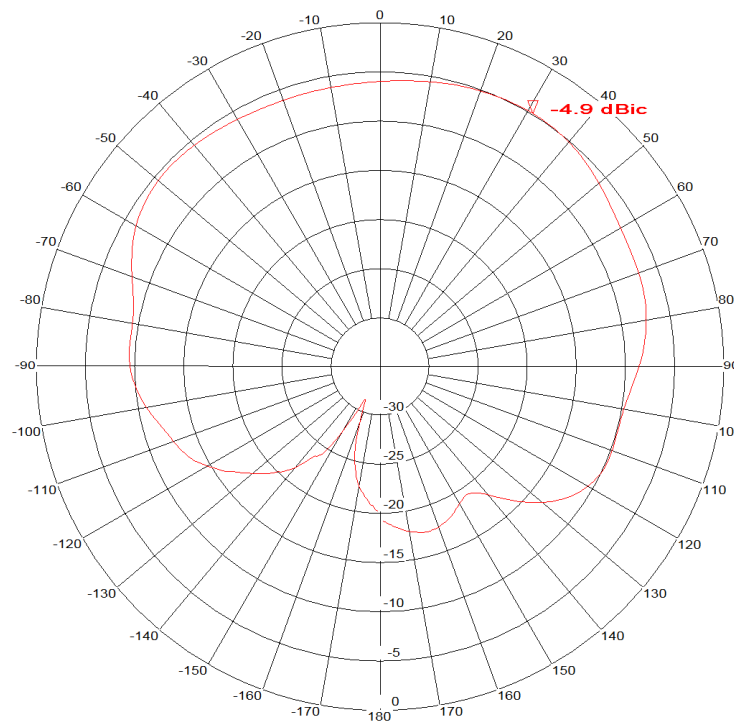


Fig 3: Typical RHCP Radiation Pattern at 1575 MHz

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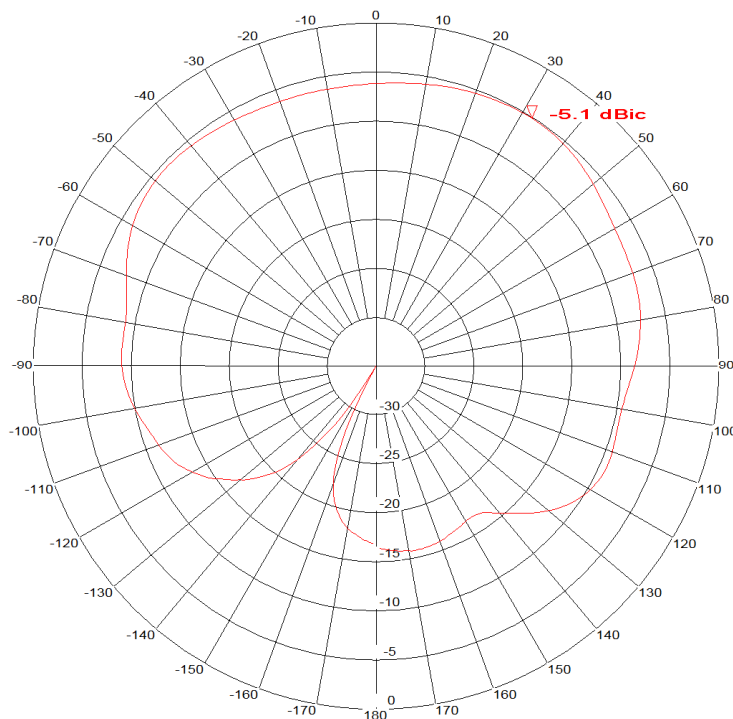


Fig 4: Typical RHCP Radiation Pattern at 1576 MHz

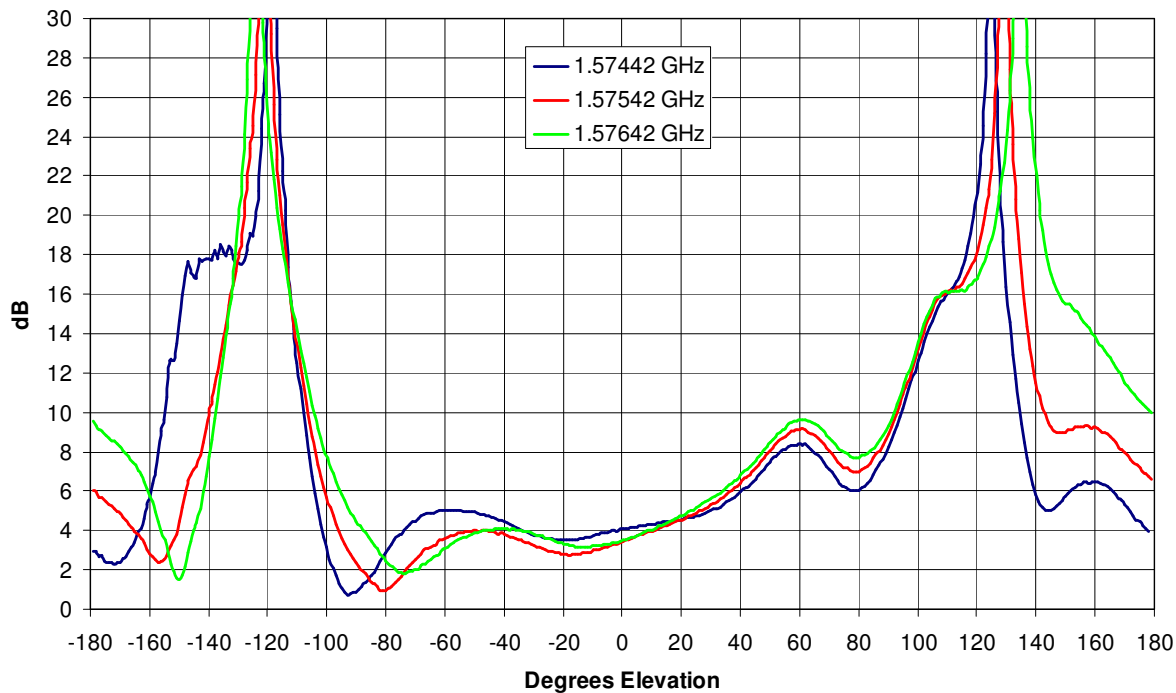


Fig 5: Axial Ratio vs. Elevation angle

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