



MAXTENA, INC.
 ANTENNA INNOVATIONS COMPANY
 1715 PRATT DR., SUITE 2800
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MPA1575D104

Compact Microstrip Patch Antenna
 GPS L1 band
 Preliminary Specifications



*Actual Size

PRODUCT DESCRIPTION

MPA1575D104 is a ceramic microstrip patch antenna with 50% efficiency and antenna peak realized gain of 3.0 dBic. MPA1575D104 has an adhesive tape on the back for easy installation on different surfaces.

SPECIFICATIONS

	Min	Typical	Max	Unit
Frequency	1570.42	1575.42	1580.42	MHz
Polarization	Right-hand circular polarization			RHCP
Efficiency (with RadioMax™)		NA		% (total spherical)
Efficiency		50		% (total spherical)
Gain (with RadioMax™)		NA		dBic
Realized Gain		3.0		dBic
Beamwidth (3dB)		90°		degrees (both axis)
Bandwidth (-1 dB) ¹		13		MHz
Cross Pole Rejection		19		dB
Axial Ratio			1	dB
Front to Back Ratio		25		dB
VSWR		1.3: 1		
Impedance (single ended)		50		Ohms
Overall Dimensions		10 x 10 x 4		mm
Operating Temperature	-40	20	+85	°C

¹ -1dbic realized gain bandwidth

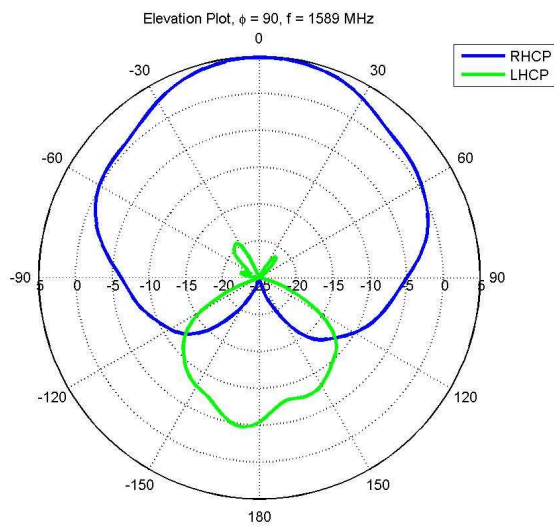
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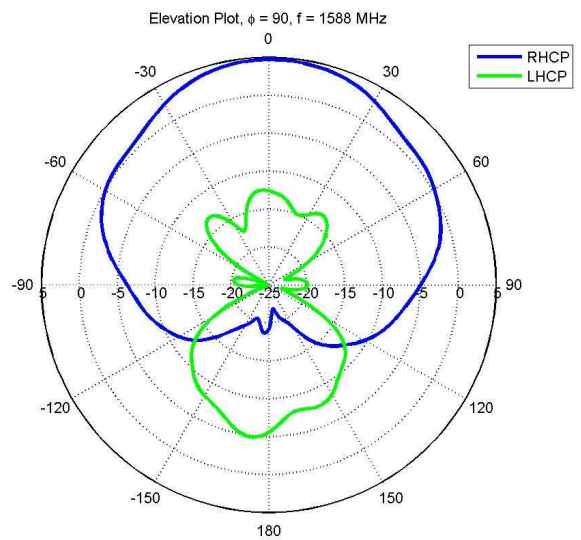
Compact Microstrip Patch Antenna for GPS L1 band

RADIATION CHARACTERISTICS*

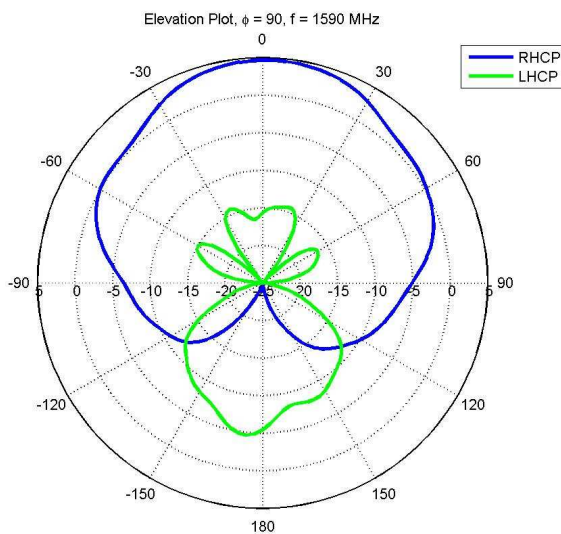
1589 MHz



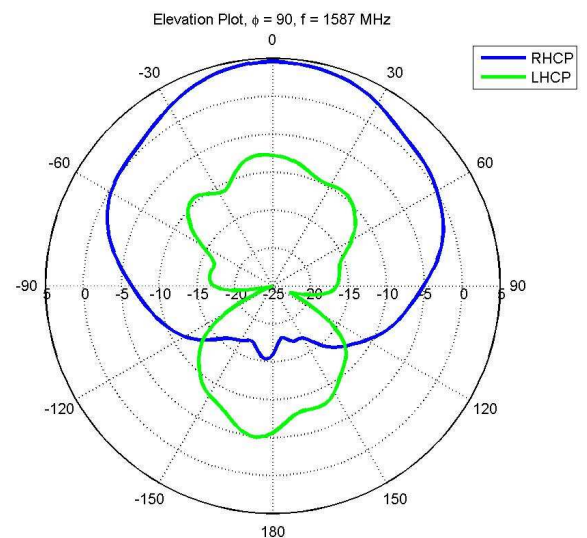
1588 MHz



1590 MHz



1587 MHz



*Measured on a 3-inch squared ground plane



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