



MAXTENA, INC.
ANTENNA INNOVATIONS COMPANY
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MPA1575D154

Compact Microstrip Patch Antenna
GPS L1 band
Preliminary Specifications



*Actual Size

PRODUCT DESCRIPTION

MPA1575D154 is a ceramic microstrip patch antenna with 72% efficiency and realized gain of 5.3 dBic. MPA1575D154 has an adhesive tape on the back for easy installation on different surfaces.

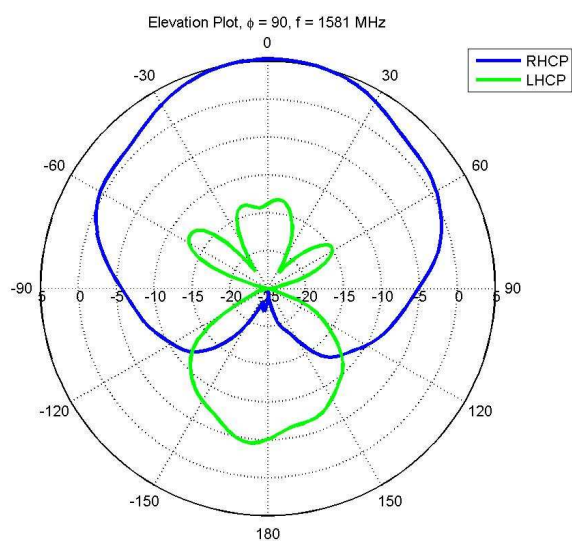
SPECIFICATIONS

	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		72		% (total spherical)
Realized Gain (with RadioMax™)		NA		dBic
Realized Gain		5.3		dBic
Beamwidth (3dB)		100°		degrees (both axis)
Bandwidth (-1 dB)		16		MHz
Cross Pole Rejection	12			dB
Axial Ratio			3	dB
Front to Back Ratio		25		dB
VSWR		1.3: 1		
Impedance (single ended)		50		Ohms
Overall Dimensions		15 x 15 x 4		mm
Operating Temperature	-40	20	+85	°C

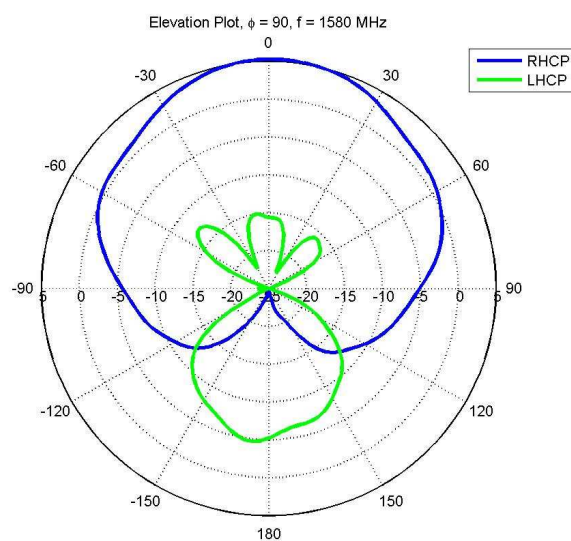
COMPACT MICROSTRIP PATCH ANTENNA FOR GPS L1 BAND

RADIATION CHARACTERISTICS*

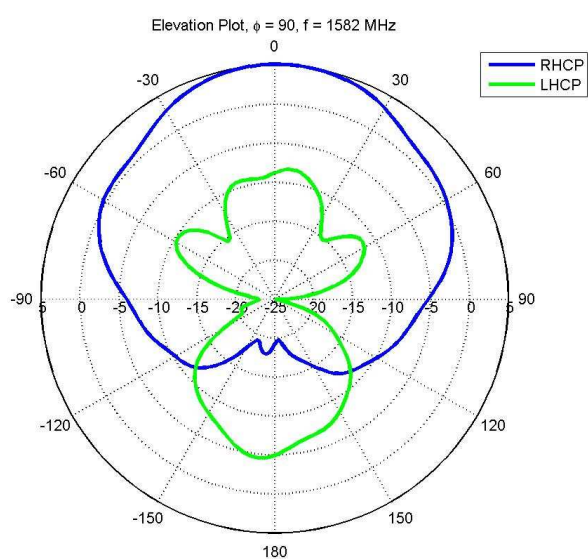
1581 MHz



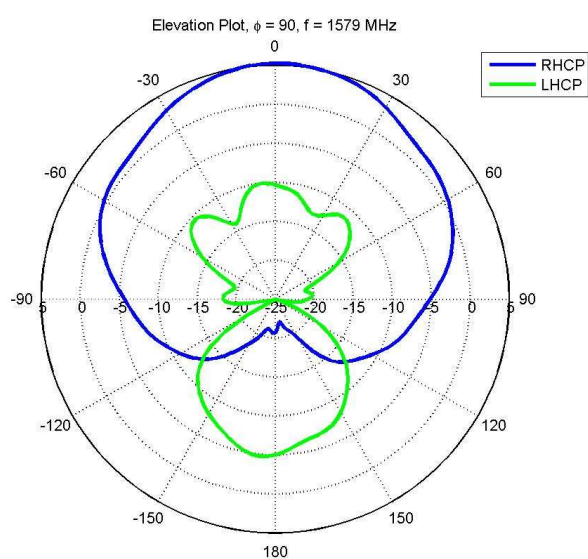
1580 MHz



1581 MHz



1580 MHz



*Measured on a 3-inch squared ground plane



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