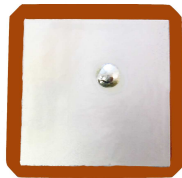




MAXTENA, INC.  
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## MPA1575D254

Compact Microstrip Patch Antenna  
 GPS L1 band  
 Preliminary Specifications



\*Actual Size

### PRODUCT DESCRIPTION

MPA1575D254 is a ceramic microstrip patch antenna with 77% efficiency and realized gain of 5.7 dBic. MPA1575D154 has an adhesive tape on the back for easy installation on different surfaces.

### SPECIFICATIONS

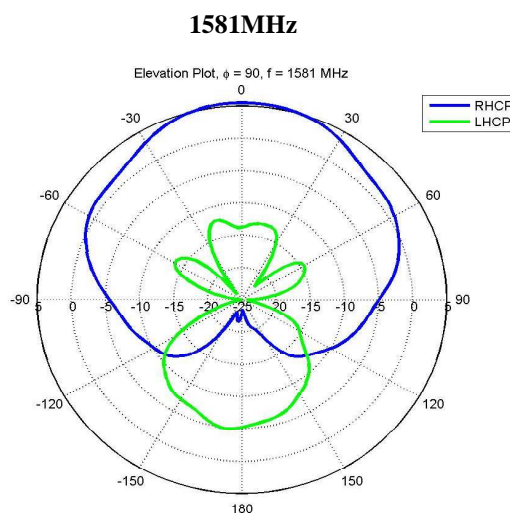
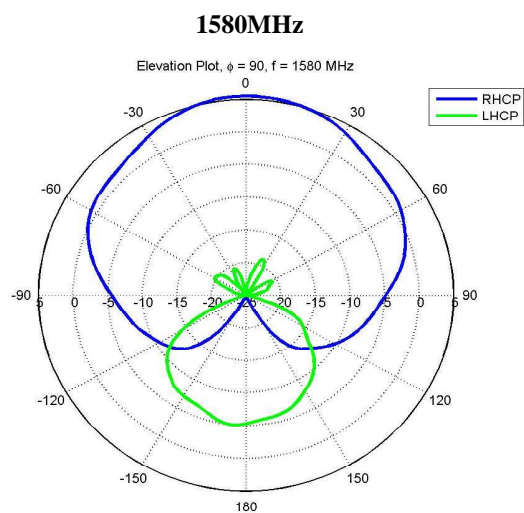
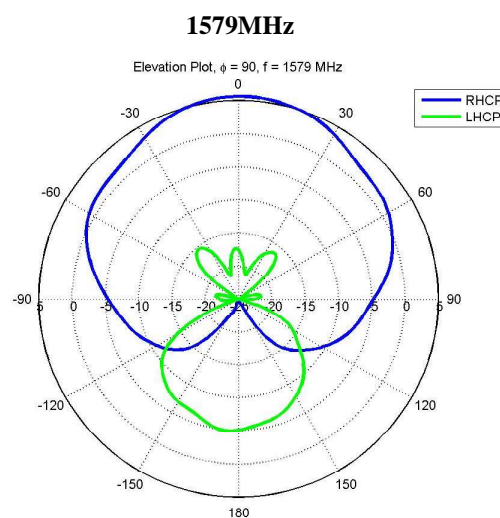
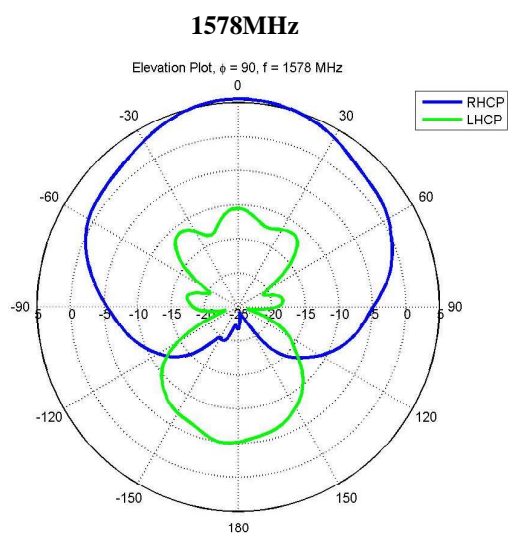
	Min	Typical	Max	Unit
Frequency	1570.42	1575.42	1580.42	MHz
Polarization	Right-hand circular polarization			RHCP
Efficiency (with RadioMax™)		NA		% (total spherical)
Efficiency		77		% (total spherical)
Realized Gain (with RadioMax™)		NA		dBic
Realized Gain		5.7		dBic
Beamwidth (3dB)		100°		degrees (both axis)
Bandwidth (-1 dB)		19		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		25x25x2		mm
Operating Temperature	-40	20	+85	°C



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## Compact Microstrip Patch Antenna for GPS L1 band

### RADIATION CHARACTERISTICS\*



\*Measured on a 3-inch squared ground plane

