



MAXTENA, INC.  
 ANTENNA INNOVATIONS COMPANY  
 1715 PRATT DR., SUITE 2800  
 BLACKSBURG, VA 24060  
 1-877-MAXTENA (629-8362)  
 INFO@MAXTENA.COM

# MPA1575D124

## Compact Microstrip Patch Antenna

### GPS L1 Band



#### PRODUCT DESCRIPTION

MPA1575D124 is a ceramic microstrip patch antenna with 65% efficiency and antenna peak realized gain of 4.8 dBic. MPA1575D124 has an adhesive tape on the back for easy installation on different surfaces.

#### SPECIFICATIONS

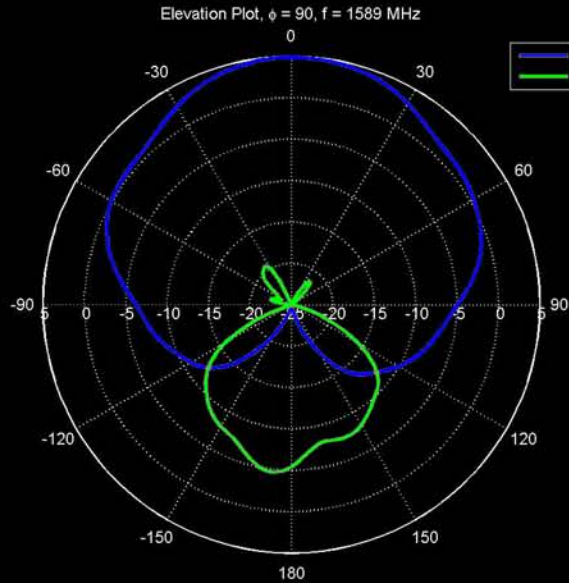
	Min	Typical	Max	Unit
Frequency	1570.42	1575.42	1580.42	MHz
Polarization		Right-Hand		RHCP
Efficiency (with RadioMax™)		N/A		% (total spherical)
Efficiency		65		% (total spherical)
Gain (with RadioMax™)		N/A		dBic
Realized Gain		4.8		dBic
Beamwidth (3dB) <sup>1</sup>		90		Degrees (both axis)
Bandwidth (-1dB)		15		MHz
Cross Pole Rejection		19		dB
Axial Ratio			3	dB
Front to Back Ratio		25		dB
VSWR		1.3:1		
Impedance (differential)		50		Ohms
Overall Dimensions		12 x 12 x 4		mm
Operating Temperature	-40	20	+85	°C

<sup>1</sup> -1dbic realized gain bandwidth

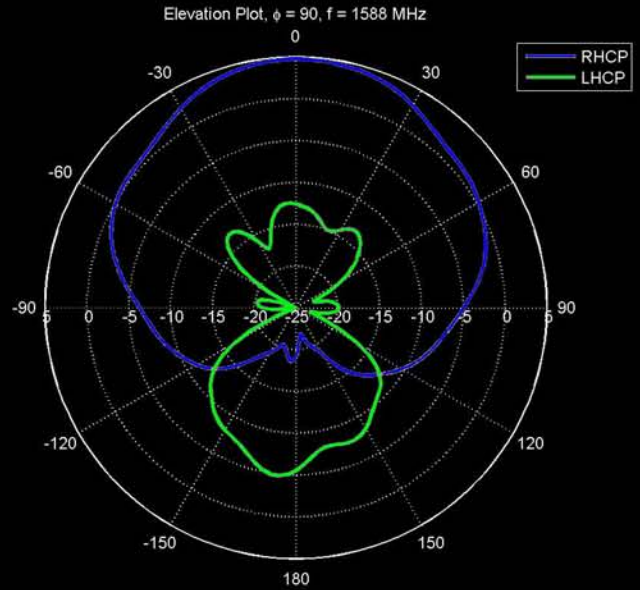


## RADIATION CHARACTERISTICS

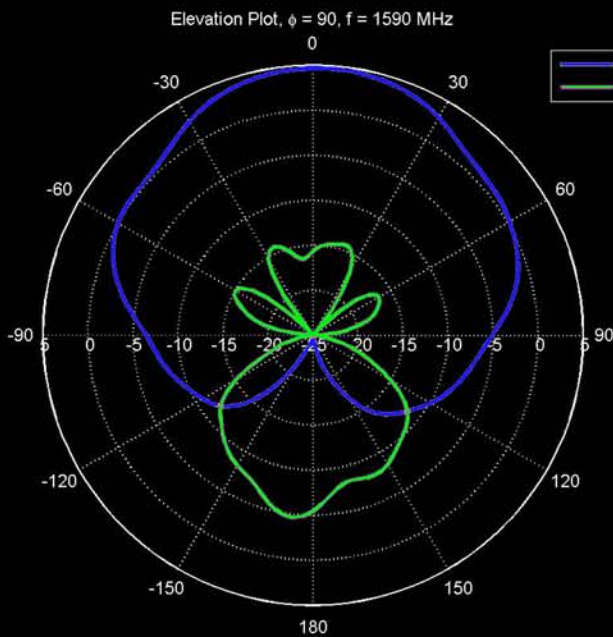
1589 MHz



1588 MHz



1590 MHz



1587 MHz

