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# MPA1575D124

## Compact Microstrip Patch Antenna

### GPS L1 band

### Preliminary Specifications



\*Actual Size

#### 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.

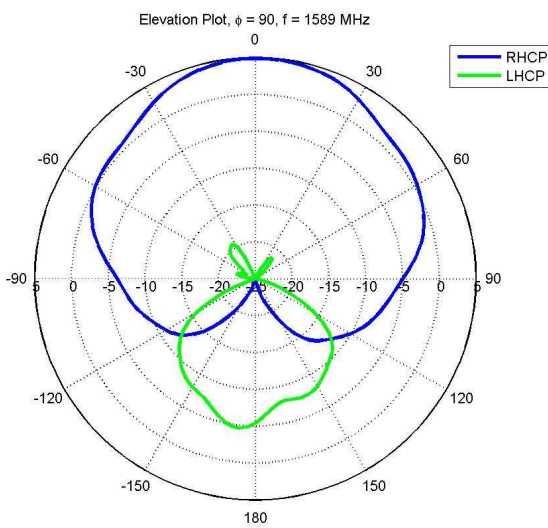
#### SPECIFICATIONS

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

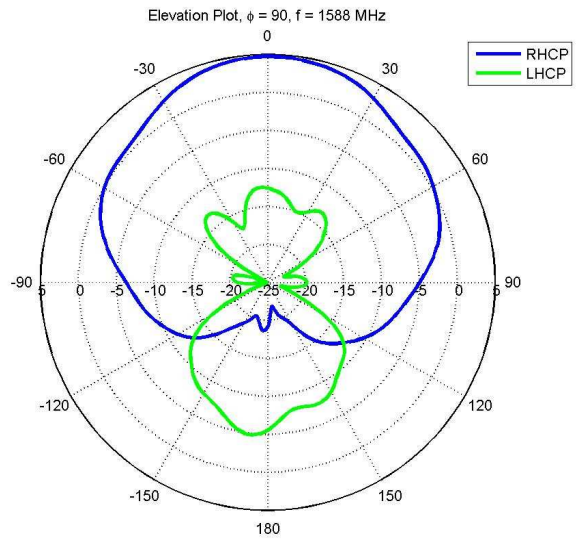
**Compact Microstrip Patch Antenna for GPS L1 band**

**RADIATION CHARACTERISTICS\***

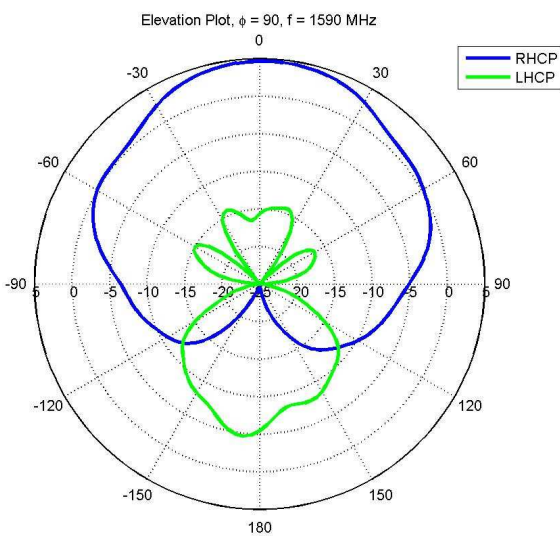
**1589 MHz**



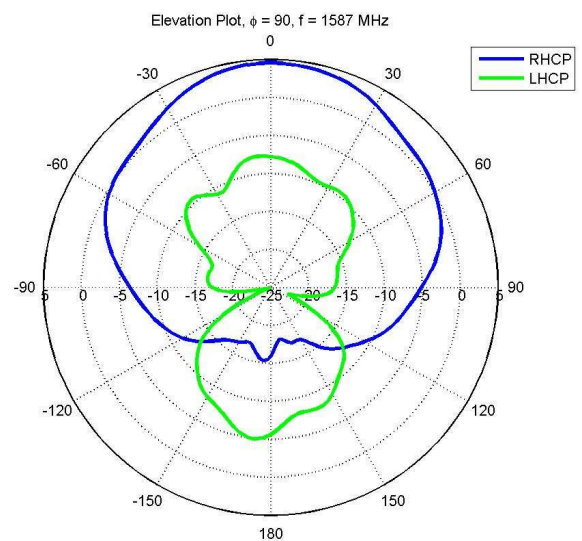
**1588 MHz**



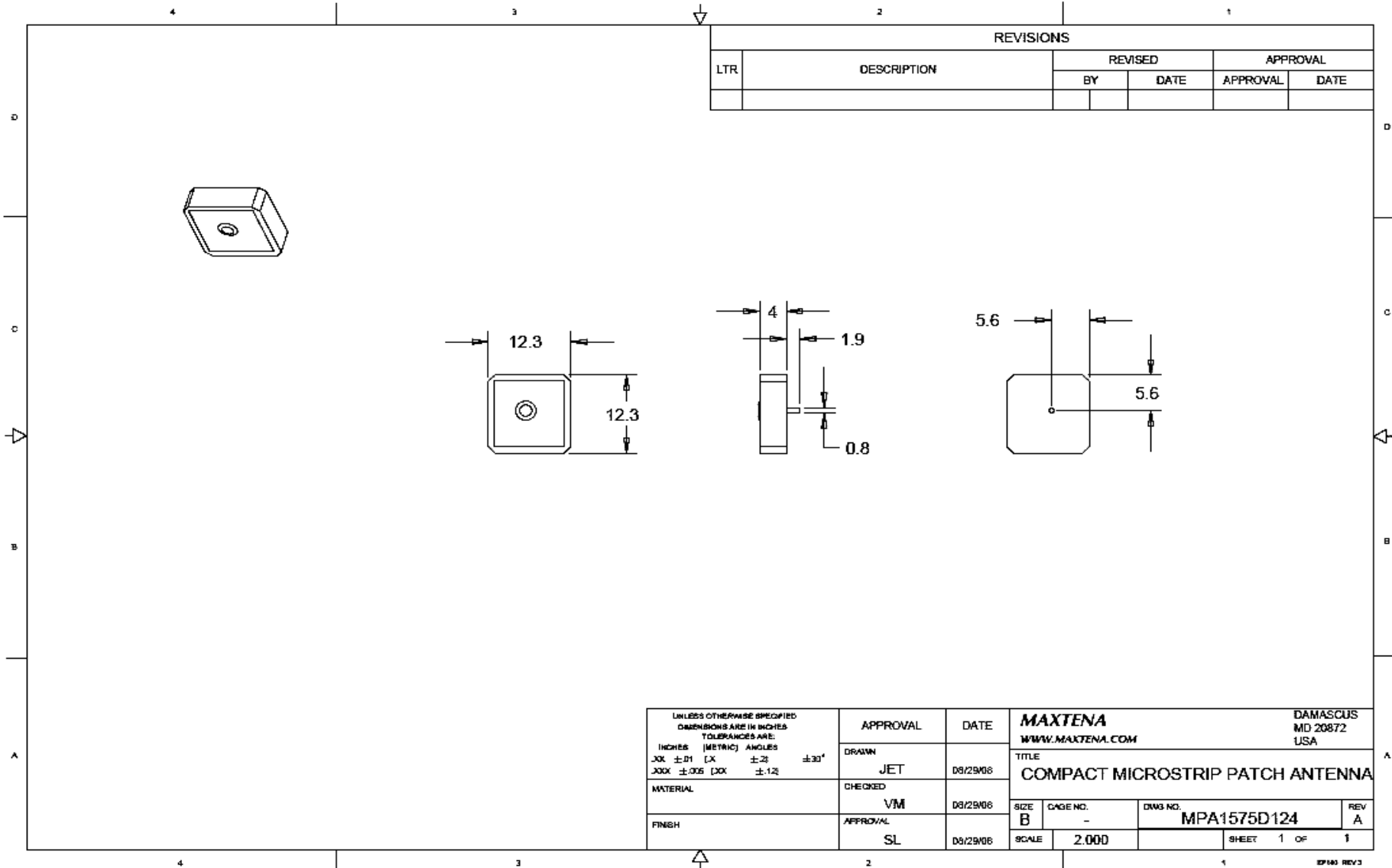
**1590 MHz**



**1587 MHz**



\*Measured on a 3-inch squared ground plane



REVISIONS					
LTR	DESCRIPTION	REVISED		APPROVAL	
		BY	DATE	APPROVAL	DATE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: INCHES (METRIC) ANGLES .XX ±.01 (.X ±.2) ±30° .XXX ±.005 (.XX ±.12)	APPROVAL	DATE	<b>MAXTENA</b> WWW.MAXTENA.COM		DAMASCUS MD 20872 USA
	DRAWN	JET	08/29/06	TITLE	
	CHECKED	VM	08/29/06	<b>COMPACT MICROSTRIP PATCH ANTENNA</b>	
	APPROVAL	SL	08/29/06	SIZE <b>B</b> SCALE <b>2.000</b>	CAGE NO. - DWG NO. <b>MPA1575D124</b>