



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

MPA1575D184

Compact Microstrip Patch Antenna
 GPS L1 band
 Preliminary Specifications



*Actual Size

PRODUCT DESCRIPTION

MPA1575D184 is a ceramic microstrip patch antenna with 88% efficiency and realized gain of 6.1 dBic. MPA1575D154 has an adhesive tape on the back for easy installation on different surfaces.

SPECIFICATIONS

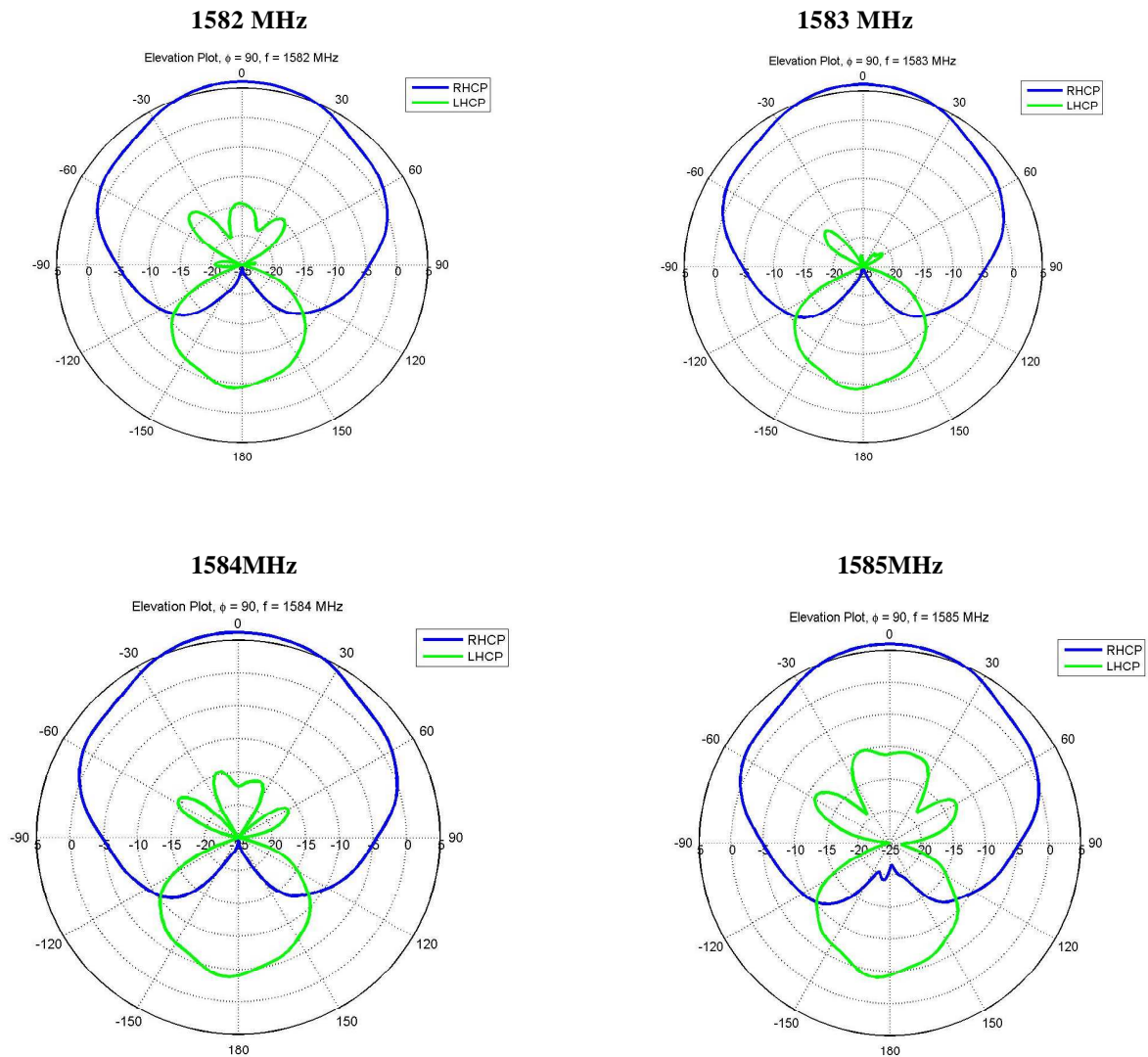
| | Min | Typical | Max | Unit |
|--------------------------------|----------------------------------|---------|---------|---------------------|
| Frequency | 1570.42 | 1575.42 | 1580.42 | MHz |
| Polarization | Right-hand circular polarization | | | RHCP |
| Efficiency (with RadioMax™) | | NA | | % (total spherical) |
| Efficiency | | 88 | | % (total spherical) |
| Realized Gain (with RadioMax™) | | NA | | dBic |
| Realized Gain | | 6.1 | | dBic |
| Beamwidth (3dB) | | 100° | | degrees (both axis) |
| Bandwidth (-1 dB) | | 23 | | 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 | | 18x18x4 | | mm |
| Operating Temperature | -40 | 20 | +85 | °C |



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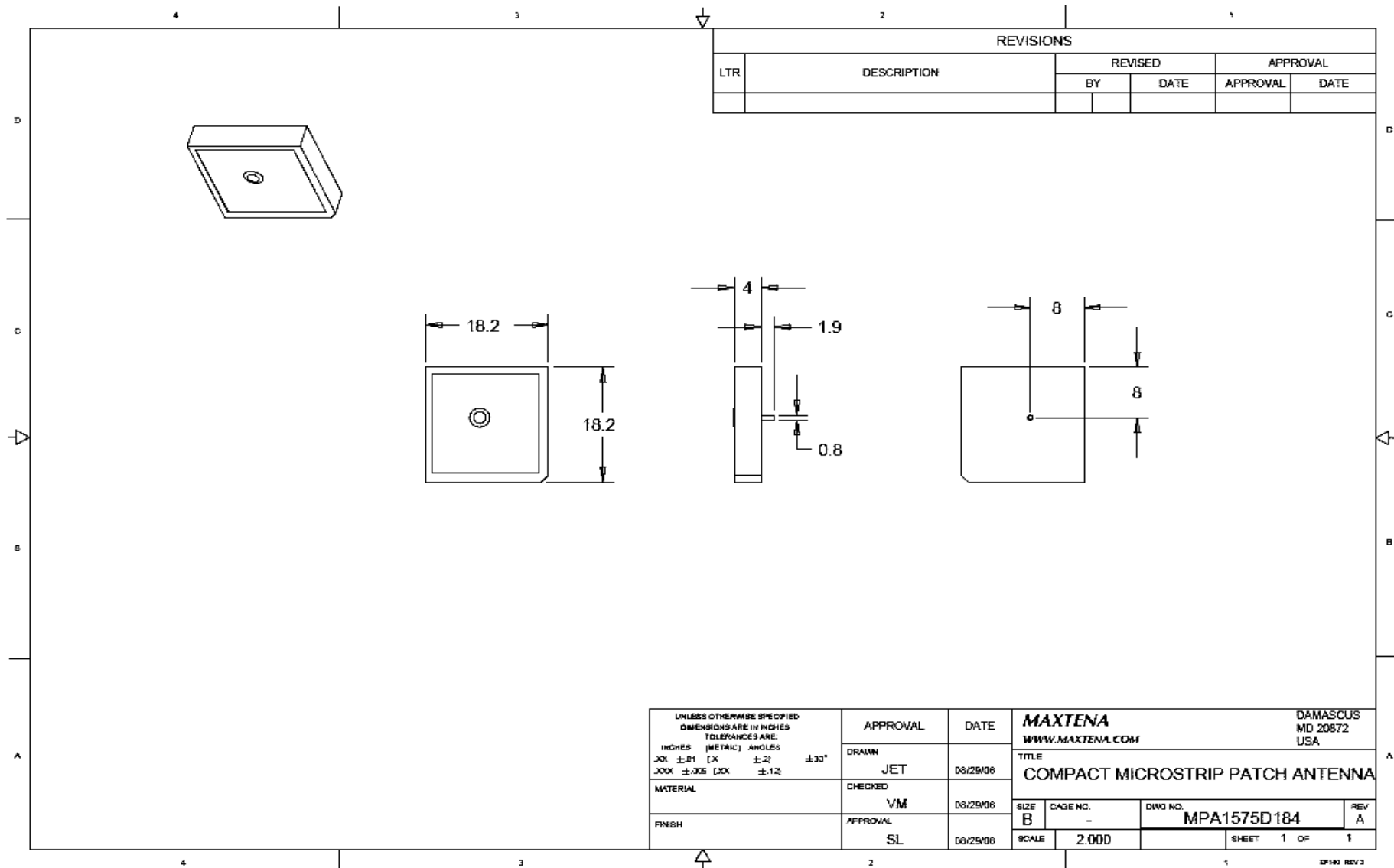
RADIATION CHARACTERISTICS*



*Measured on a 3-inch squared ground plane



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| 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 | MAXTENA WWW.MAXTENA.COM | | | DAMASCUS MD 20872 USA |
| | DRAWN | | TITLE | | | |
| | JET | 08/29/06 | COMPACT MICROSTRIP PATCH ANTENNA | | | |
| | CHECKED | | SIZE | CAGE NO. | DWG NO. | REV |
| MATERIAL | VM | 08/29/06 | B | - | MPA1575D184 | A |
| FINISH | SL | 08/29/06 | SCALE | 2.000 | SHEET 1 OF 1 | |

DPWG REV 3