



CERAMIC PATCH ANTENNA, 1561-1602MHz, 20X20X6MM

Part Numbers: L000691-01 L000691-80

FEATURES

- Covers all L1 GPS / BEIDOU bands for GNSS
- Passive Patch Antenna
- The following data is based on 70 x 70 x 1.0mm ground size
- Through-hole pin and adhesive on bottom assembly
- No matching circuits required for evaluation board

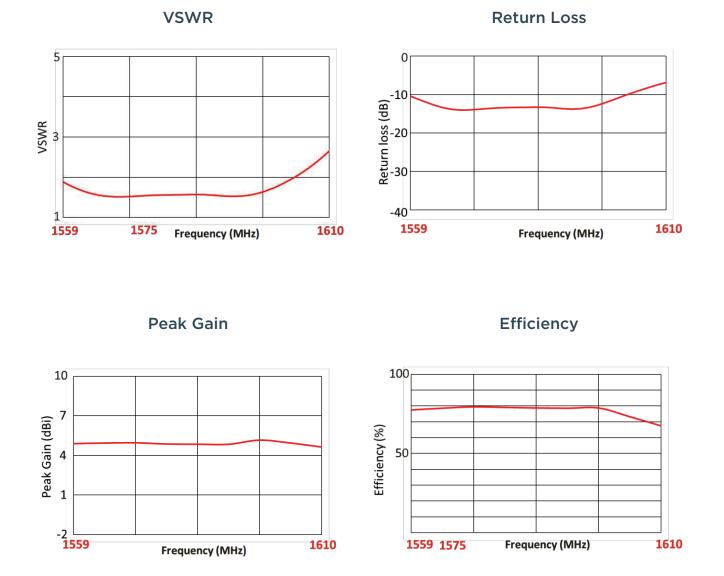
RF SPECIFICATIONS

| Polarization | Right hand polarization | | |
|-------------------------|-------------------------|------------|------------|
| Feed Point Impedance | 50 ohms | | |
| Efficiency (%) | 78% | 78.2% | 73% |
| Average Gain | -1.2 dBi | -1.2 dBi | -1.5 dBi |
| Peak Gain at Zenith | Typ1.7 dBi | Typ2.2 dBi | Typ4.5 dBi |
| VSWR (center frequency) | <2.5:1 | <2.5.0:1 | <2.5:1 |
| Bandwidth (MHz) | ±2.046 | ±1.023 | ±5 |
| Frequency Range (MHz) | 1561.098 | 1575.42 | 1602 |

MECHANICAL SPECIFICATIONS

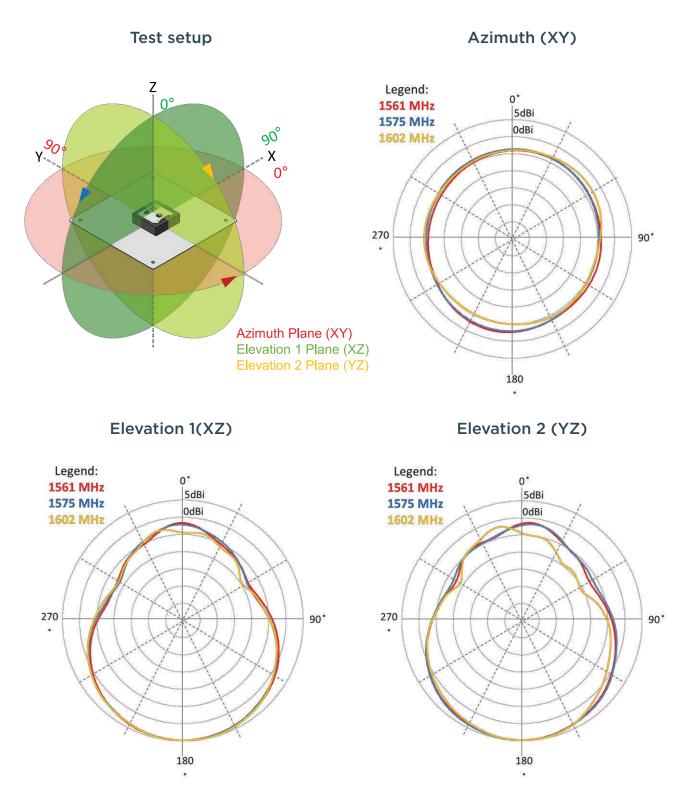
| Size (L x W x H) | 20.0 mm x 20.0 mm x 6.0 mm (L/W/H ± 0.2) | |
|-----------------------|--|--|
| Weight | < 12 g | |
| Mounting | Through Hole and Adhesive Tape | |
| Mating Connector | N/A | |
| Cable | N/A | |
| Operating Temperature | -40 to +105°C | |
| Storage Temperature | -40 to +105°C | |
| Dielectric Material | Ceramic | |
| Hazardous Materials | A certificate of conformance is available from the product page on TE website. | |

RF DATA (SHOWN AS L000691-01 : GROUND SIZE : 70 X 70 X 1.0 MM.)



Data measured in free space and on reference ground plane of 70x70x1.0 mm ground plane condition, application data might vary.

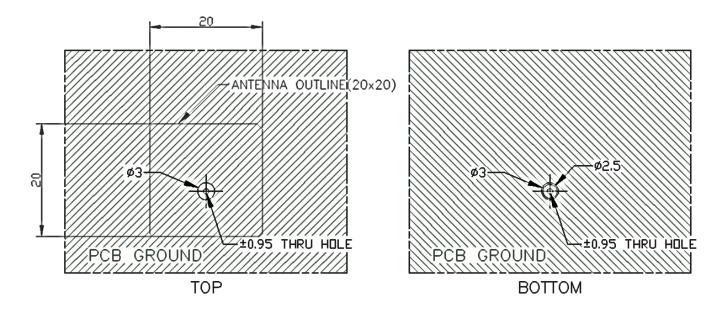
RADIATION PATTERN (SHOWN AS L000691-01 : GROUND SIZE : 70 X 70 X 1.0 MM.)



Data measured in free space and on reference ground plane of 70x70x1.0 mm ground plane condition, application data might vary.

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MOUNTING GUIDE

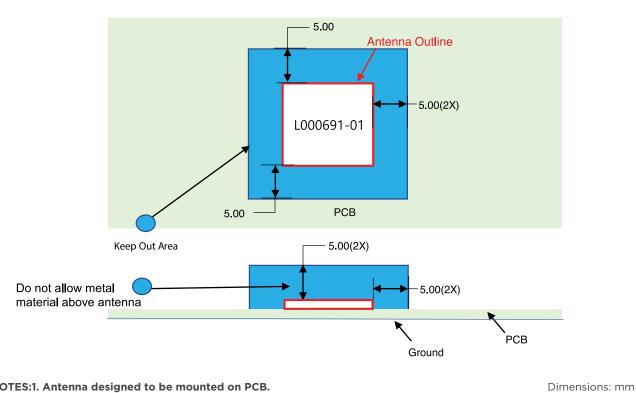


NOTES: 1. Antenna must be mounted on the edge of PCB.

- 2. NC = Non connection (mechanical mounting pads).
- 3. Tolerance : ±0.2mm
- 4. For more information please call TE.

Dimensions: mm Diagram is not to scale Standard Antenna Solutions

KEEP OUT AREA



NOTES:1. Antenna designed to be mounted on PCB.

2. Area in blue above indicates Keep Out Area.

3. For more information please call TE.

DIMENSIONS

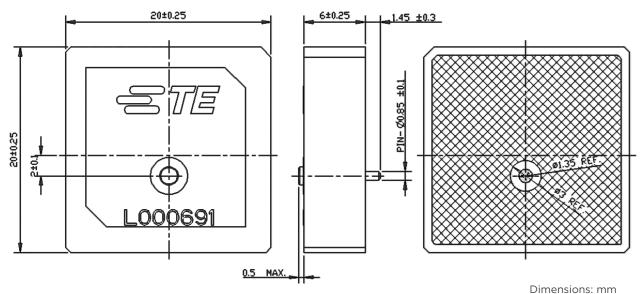


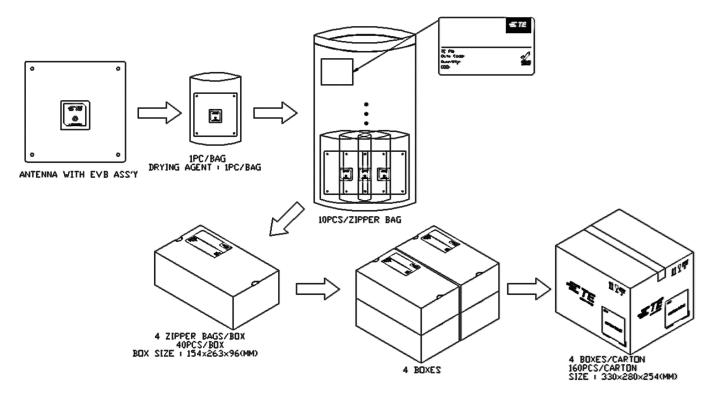
Diagram is not to scale

Diagram is not to scale

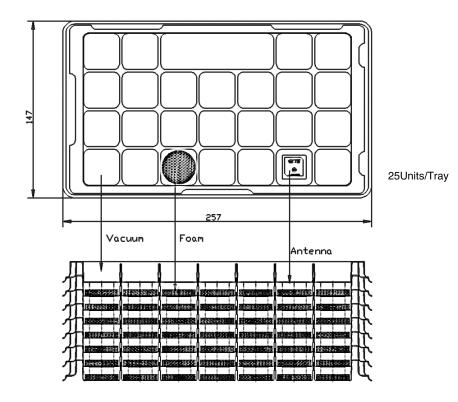
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PACKAGING

L000691-80 (BULK)



L000691-01 (TRAY)



TE TECHNICAL SUPPORT CENTER

| USA: | +1 (800) 522-6752 |
|-------------------|-----------------------|
| Canada: | +1 (905) 475-6222 |
| Mexico: | +52 (0) 55-1106-0800 |
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