



CERAMIC PATCH ANTENNA, 1561-1602MHz, SMD, 18X18X6MM

Part Numbers: L000695-01 L000695-80

FEATURES

- Covers all L1 GPS / BEIDOU bands for GNSS
- SMD type passive patch antenna; High efficiency/ peak gain
- The following data is based on 50x50x1mm and 100x100x1mm ground size
- No matching circuits required for evaluation board

RF SPECIFICATIONS

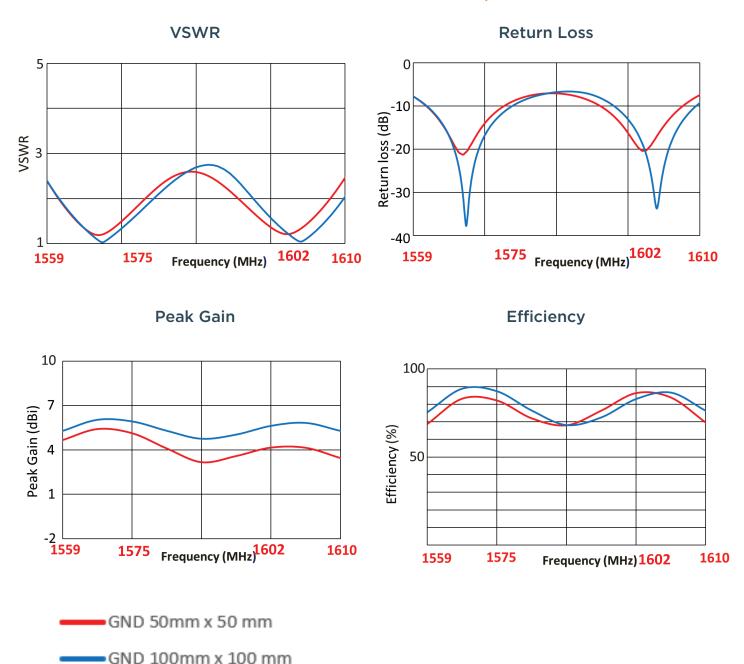
| Frequency Range (MHz) | 1561.098 | 1575.42 | 1602 |
|-------------------------|-------------------------------|--------------|--------------|
| Bandwidth (MHz) | ±2.046 | ±1.023 | ±5 |
| VSWR (center frequency) | <2.8 :1 | <2.4 :1 | <2.8 :1 |
| Peak Gain at Zenith | Typ. 0.5 dBi | Typ. 0.7 dBi | Typ. 0.9 dBi |
| Average Gain | -1.5 dB | -1.6 dB | -1.7 dB |
| Efficiency (%) | 73% | 75% | 83% |
| Feed Point Impedance | 50 ohms | | |
| Polarization | Right Hand Polarization (RHP) | | |

MECHANICAL SPECIFICATIONS

| Size (LxWxH) | 18.0 mm x 18.0 mm x 6.0 mm (L/W/H ± 0.15) | | |
|-----------------------|--|--|--|
| Weight | < 10 g | | |
| Mounting | SMD (Surface Mount Device) | | |
| 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. | | |

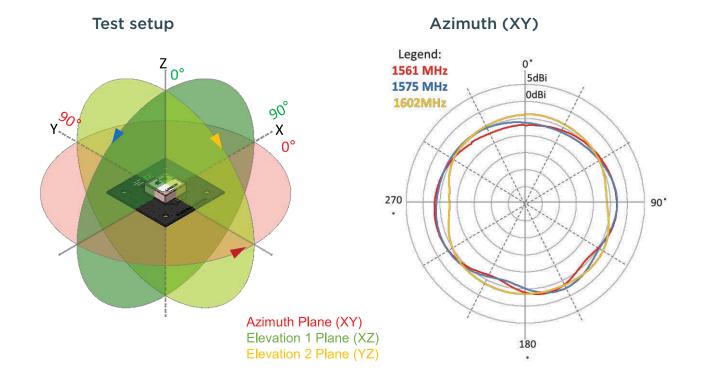
RF DATA (SHOWN AS L000695-01:

GROUND SIZE: 50 X 50 X 1.0 MM & 100 X 100 X 1.0 MM)

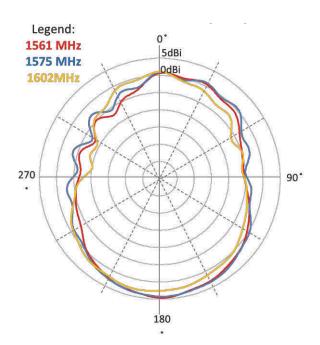


Data measured in free space and on reference ground plane of 50x50x1.0 & 100x100x1.0 mm ground plane condition, application data might vary.

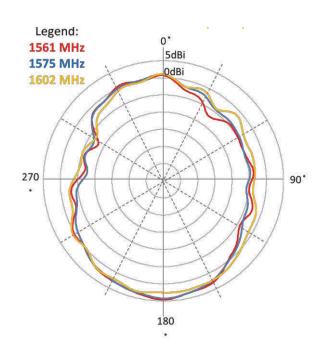
RADIATION PATTERN (SHOWN AS L000695-01: GROUND SIZE: 50 X 50 X 1.0 MM.)



Elevation 1(XZ)

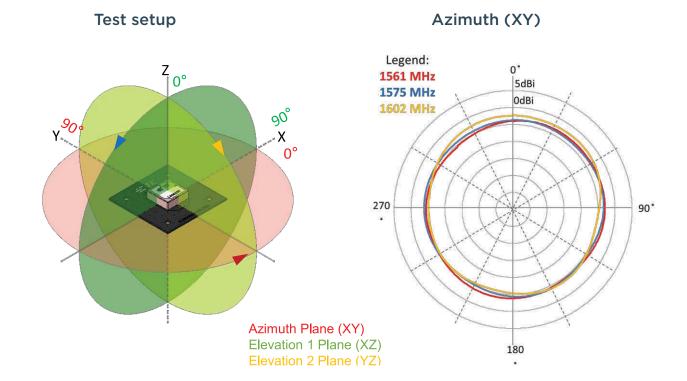


Elevation 2 (YZ)

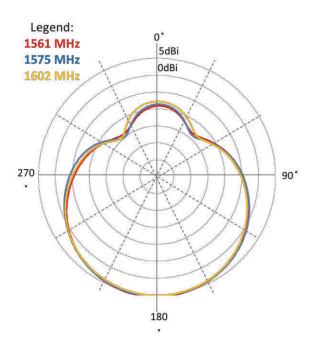


Data measured in free space and on reference ground plane of 50x50x1.0 & 100x100x1.0 mm ground plane condition, application data might vary.

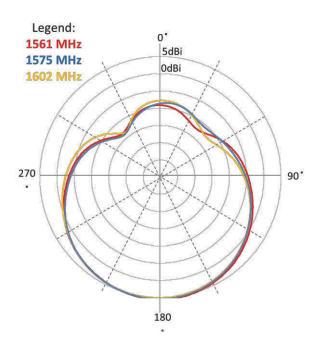
RADIATION PATTERN (SHOWN AS LO00695-01: GROUND SIZE: 100 X 100 X 1.0 MM.)



Elevation 1(XZ)

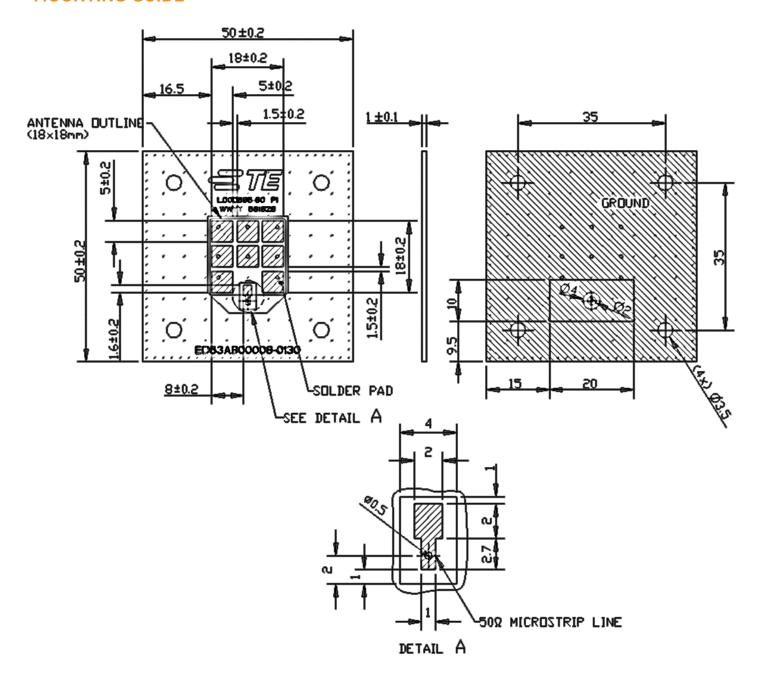


Elevation 2 (YZ)



Data measured in free space and on reference ground plane of $100 \times 100 \times 1.0$ mm ground plane condition, application data might vary.

MOUNTING GUIDE

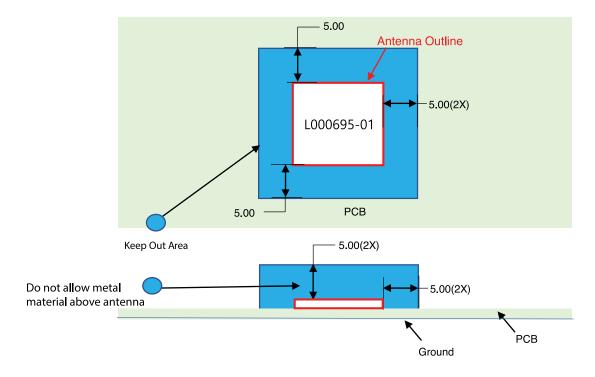


NOTES: 1. Antenna must be mounted on the edge of PCB.

- 2. For more information please call TE.
- 3. Reference PCB Dimension(mm)
- 50.0 x 50.0 x 1.0

Dimension: mm
Tolerance: ±0.2mm
Diagrams is not to scale

KEEP OUT AREA

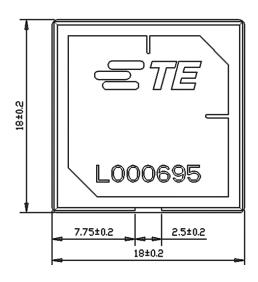


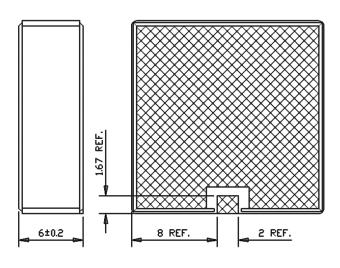
NOTES:1. Antenna designed to be mounted on PCB.

- 2. Area in blue above indicates Keep Out Area.
- 3. For more information please call TE.

Dimensions: mm Diagram is not to scale

DIMENSIONS

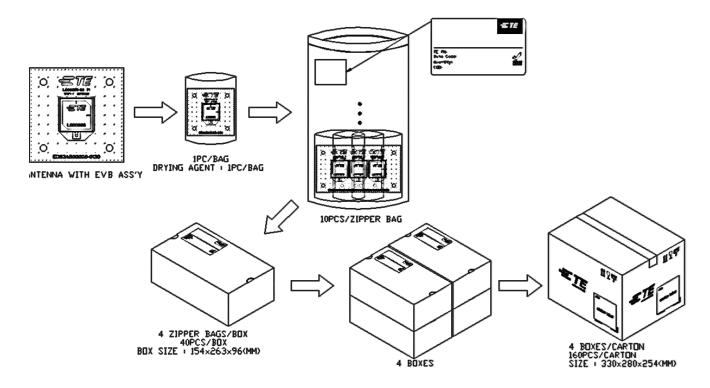




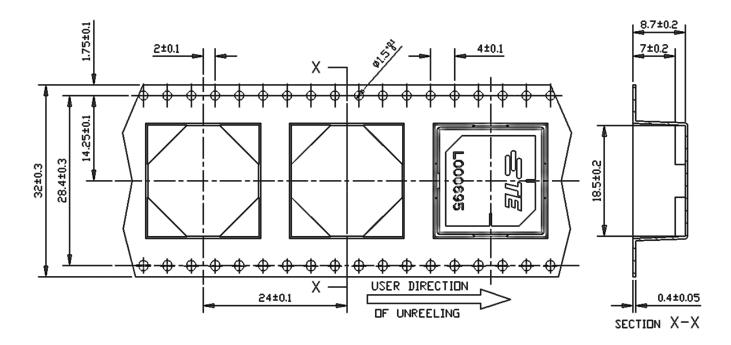
Dimensions: mm Diagram is not to scale

PACKAGING

L000695-80 (BULK)



L000695-01 (REEL)



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