



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

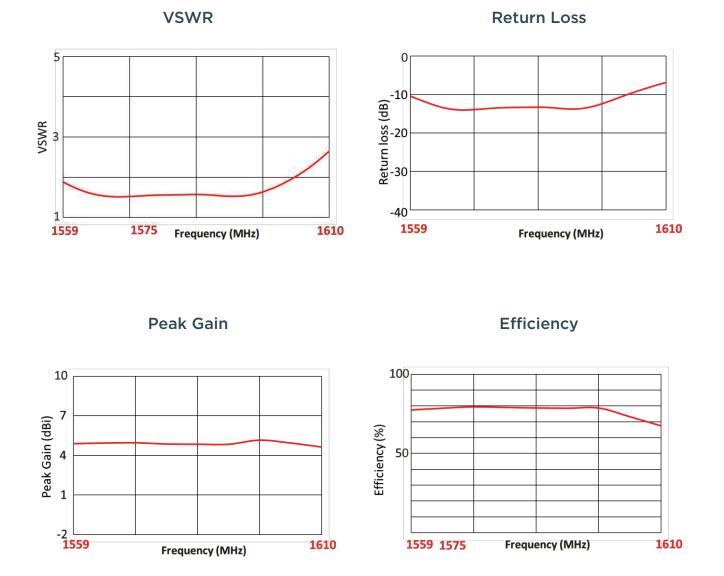
RF SPECIFICATIONS

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

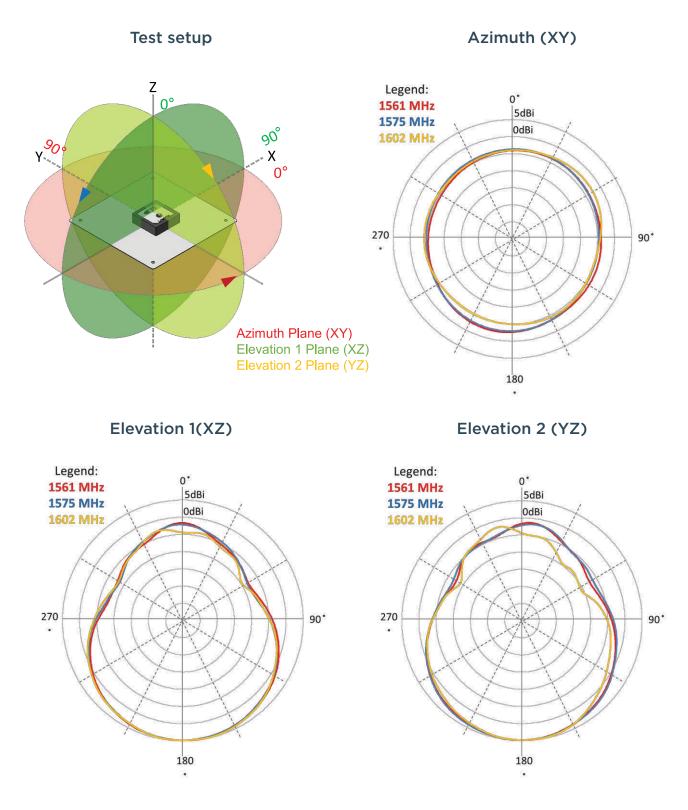
Size (L x W x H)	20.0 mm x 20.0 mm x 6.0 mm (L/W/H ± 0.2)	
Weight	< 12 g	
Mounting	Through Hole and Adhesive Tape	
Mating Connector	N/A	
Cable	N/A	
Operating Temperature	-40 to +105°C	
Storage Temperature	-40 to +105°C	
Dielectric Material	Ceramic	
Hazardous Materials	A certificate of conformance is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

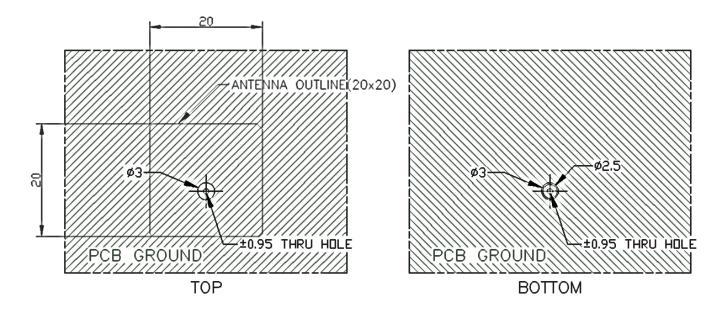
RADIATION PATTERN (SHOWN AS L000691-01 : GROUND SIZE : 70 X 70 X 1.0 MM.)



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

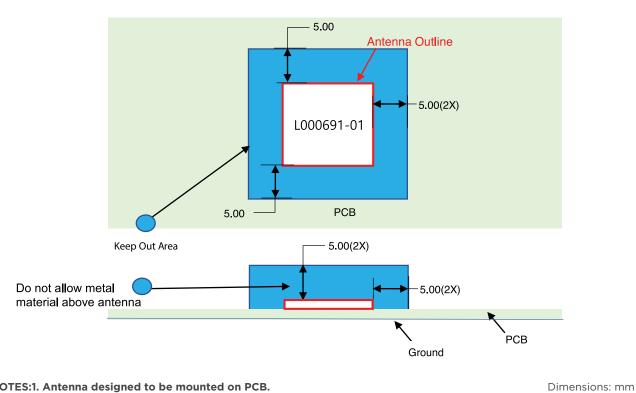


NOTES: 1. Antenna must be mounted on the edge of PCB.

- 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

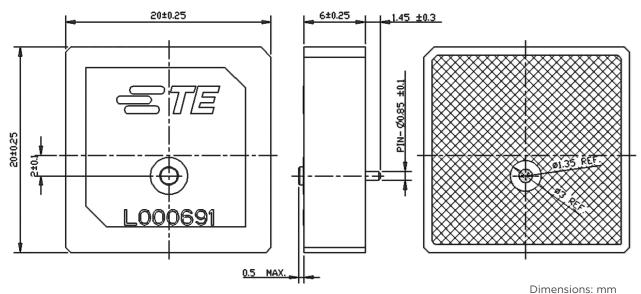


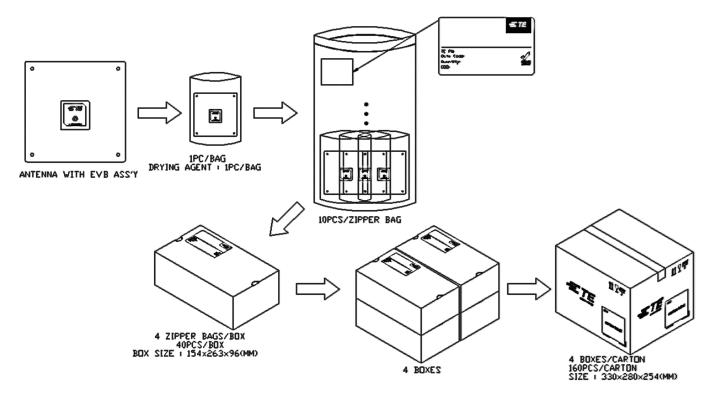
Diagram is not to scale

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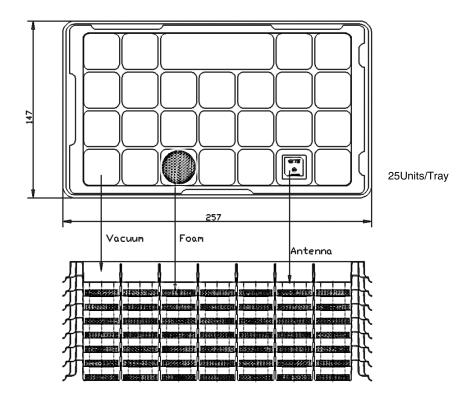
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PACKAGING

L000691-80 (BULK)



L000691-01 (TRAY)



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