



CERAMIC PATCH ANTENNA, 1561 -1602MHz, SMD, 25X25X6MM

Part Numbers:

L000696-01

L000696-80

FEATURES

- Covers all three L1 GPS/ BEIDOU bands for GNSS
- SMD type Passive Patch Antenna; High efficiency/ peak gain
- The following data is based on 50 x 50 x 0.8mm ground size
- No matching circuits required for evaluation board

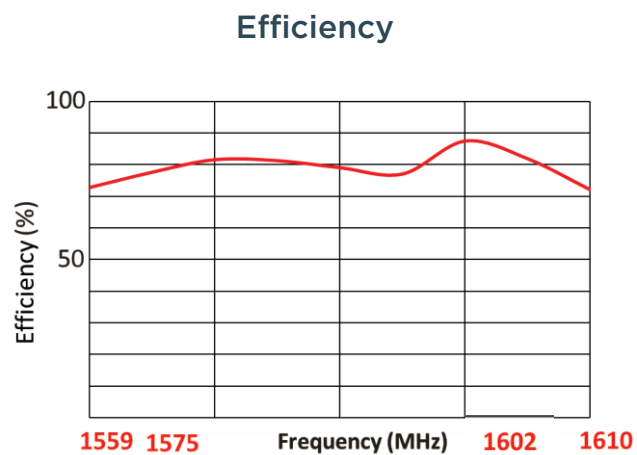
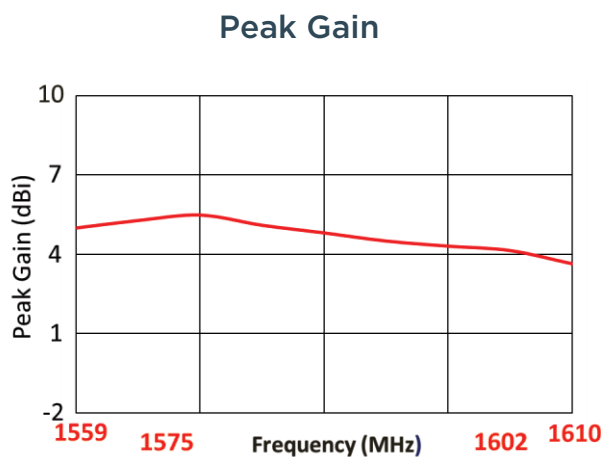
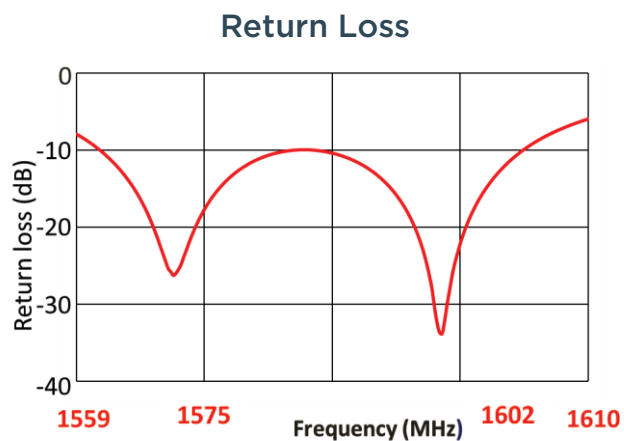
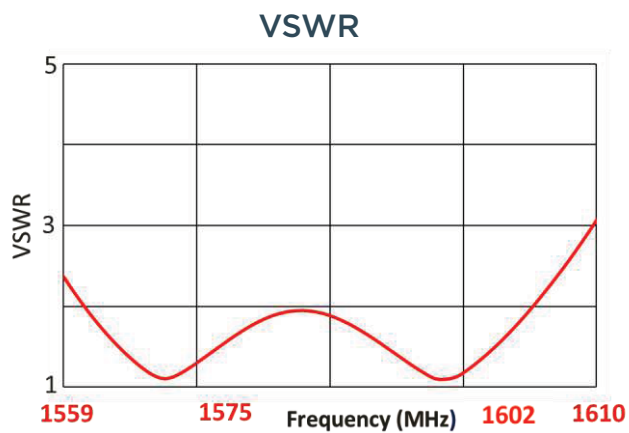
RF SPECIFICATIONS

Frequency Range (MHz)	1561.098	1575.42	1602
Bandwidth (MHz)	±2.046	±1.023	±5
VSWR (center frequency)	<2.5:1	<2.5:1	<2.5:1
Peak Gain at Zenith	Typ. 1.0 dBi	Typ. 1.0 dBi	Typ. 1.0 dBi
Average Gain	-1.5 dB	-1.5 dB	-1.5 dB
Efficiency (%)	73%	75%	83%
Feed Point Impedance	50 ohms		
Polarization	Right Hand Polarization (RHP)		

MECHANICAL SPECIFICATIONS

Size (L x W x H)	25.0 mm x 25.0 mm x 6.0 mm (L/W/H ± 0.2)
Weight	< 16 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.

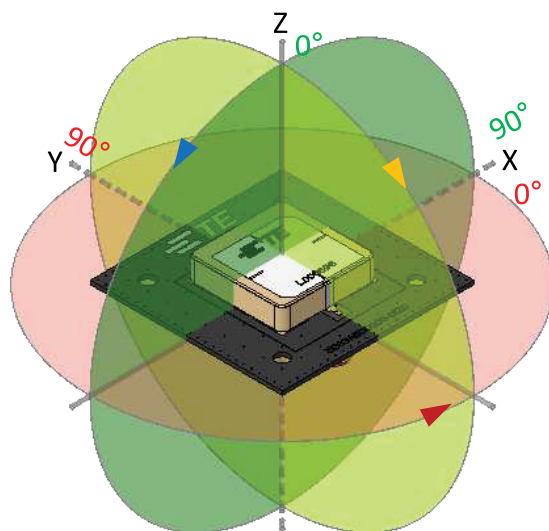
RF DATA (SHOWN AS L000696-01 : GROUND SIZE : 50 X 50 X 0.8 MM.)



Data measured in free space and on reference ground plane of 50x50x0.8 mm ground plane condition, application data might vary.

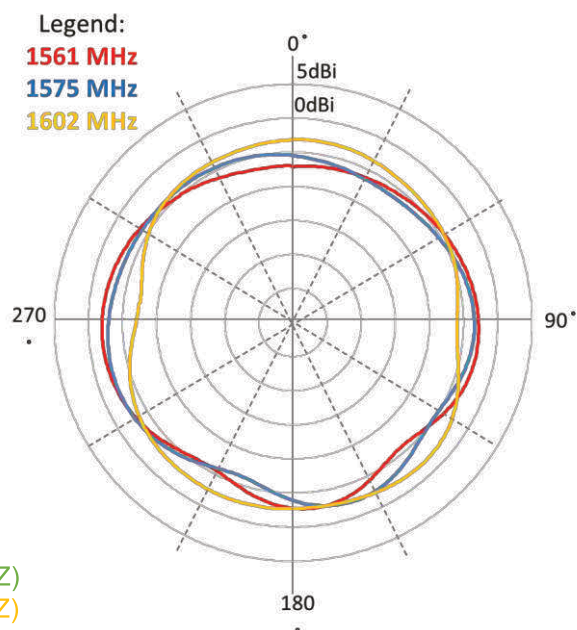
RADIATION PATTERN (SHOWN AS L000696-01 : GROUND SIZE : 50 X 50 X 0.8 MM.)

Test setup

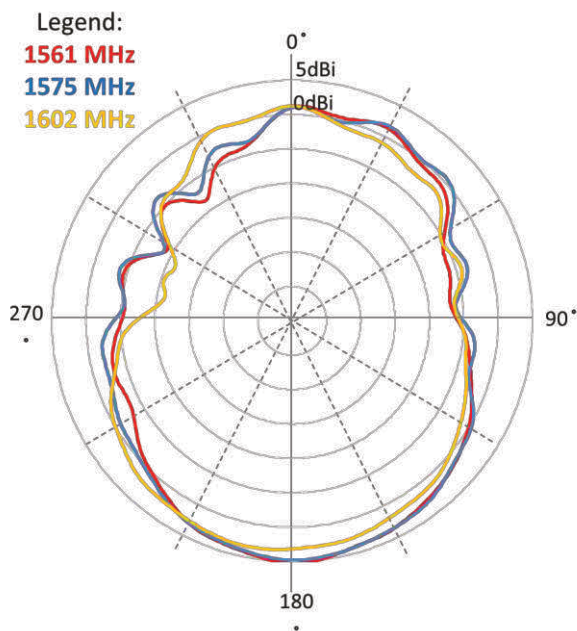


Azimuth Plane (XY)
Elevation 1 Plane (XZ)
Elevation 2 Plane (YZ)

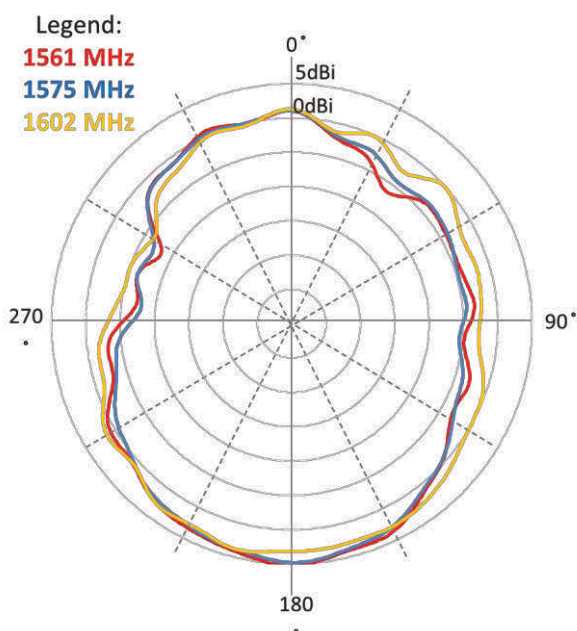
Azimuth (XY)



Elevation 1(XZ)



Elevation 2 (YZ)



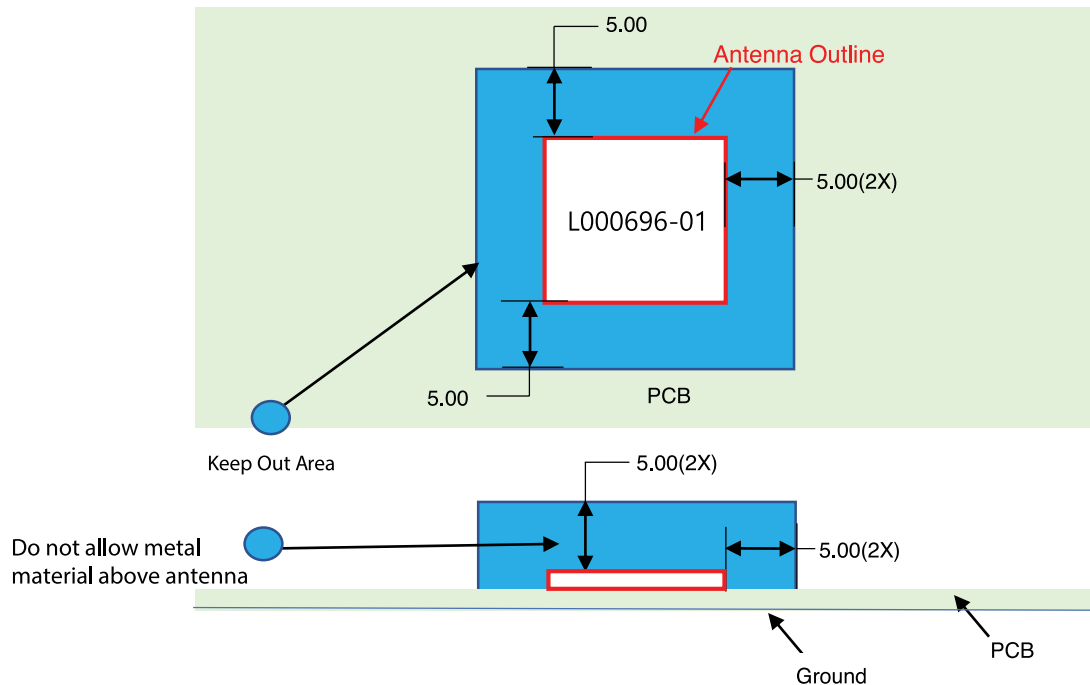
Data measured in free space and on reference ground plane of 50x50x0.8 mm ground plane condition, application data might vary.

[illegible]

3. Reference PCB Dimension(mm) - 50.0 x 50.0 x 1.0

Diagrams is not to scale

KEEP OUT AREA



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

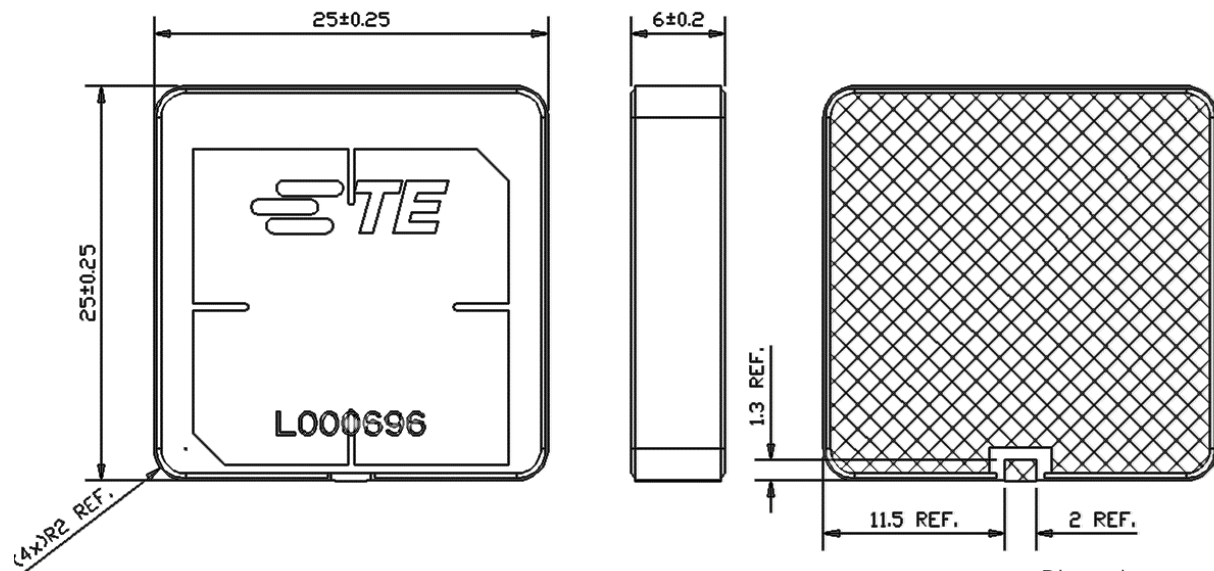
2. Area in blue above indicates Keep Out Area.

3. For more information please call TE.

Dimensions: mm

Diagram is not to scale

DIMENSIONS

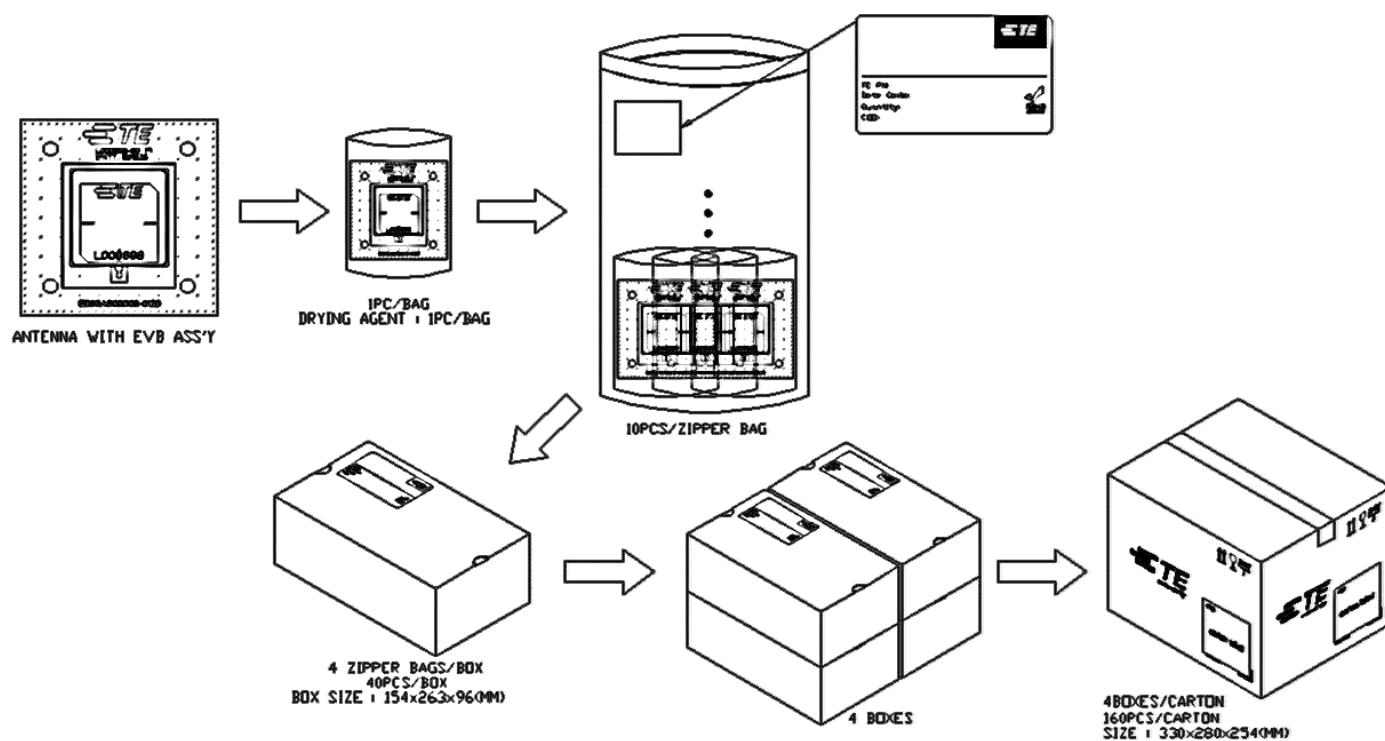


Dimensions: mm

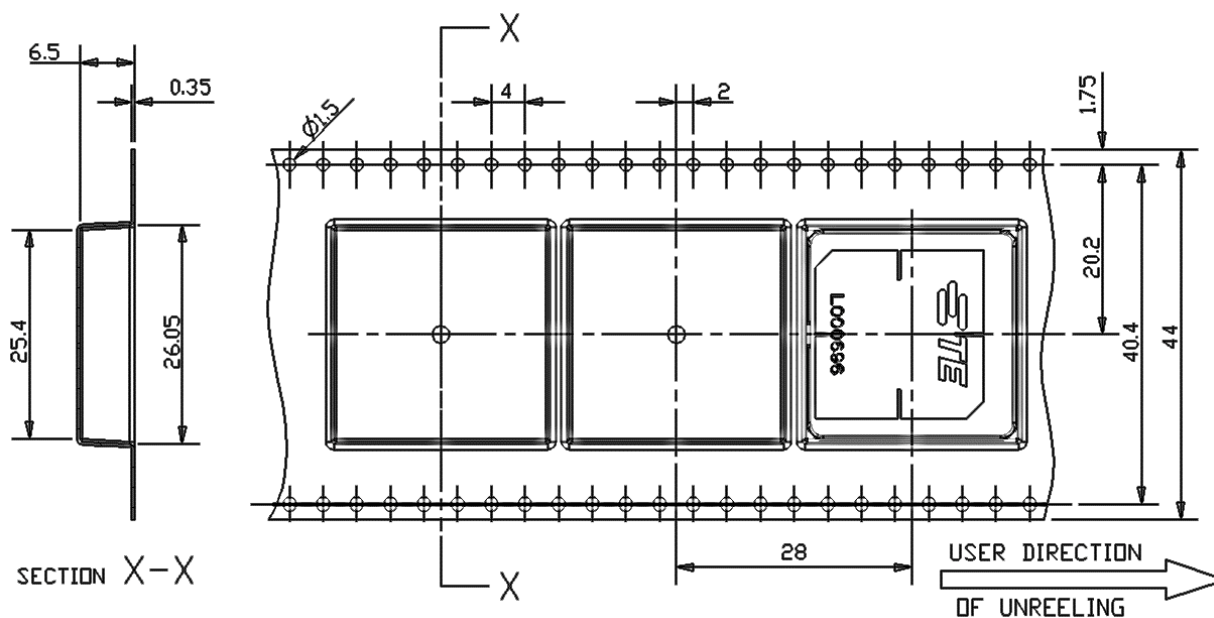
Diagram is not to scale

PACKAGING

L000696-80 (BULK)



L000696-01 (REEL)



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Standard Antenna Solutions

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