



CHIP ANTENNA, 1561-1602MHz, 3.05X1.6X0.55MM

Part Numbers: L000703-01 L000703-80

FEATURES

- Covers all L1 GPS / BEIDOU bands for GNSS
- SMD Passive Patch Antenna; ultra-compact, ultra-low profile, light weight
- The following data is based on 80 x 40 x 0.8mm ground size
- Matching circuits required as mounting guide

RF SPECIFICATIONS

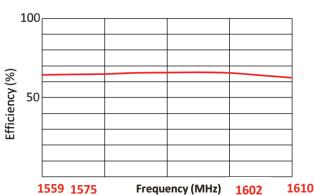
Frequency Range (MHz)	1561.098	1575.42	1602
Bandwidth (MHz)	±2.046	±1.023	±5
VSWR (center frequency)	<2.5:1	<2.5:1	<2.5:1
Peak Gain at Zenith	Typ. 2.0 dBi	Typ. 2.0 dBi	Typ. 1.8 dBi
Average Gain	-1.8 dB	-1.8 dB	-1.9 dB
Efficiency (%)	63%	64%	62%
Feed Point Impedance	50 ohms		
Polarization	Linear polarization		

MECHANICAL SPECIFICATIONS

Size (LxWxH)	3.05 mm x 1.6 mm x 0.55 mm (L/W/H ± 0.15)		
Weight	< 0.1 g		
Mounting	SMD (Surface Mount Device)		
Mating Connector	N/A		
Cable	N/A		
Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +85°C		
Dielectric Material	Ceramic		
Hazardous Materials	A certificate of conformance is available from the product page on TE website.		

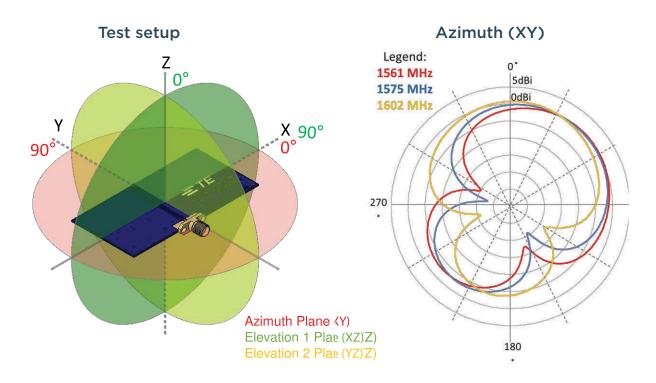
RF DATA (SHOWN AS L000703-01: GROUND SIZE: 80 X 40 X 0.8 MM.)



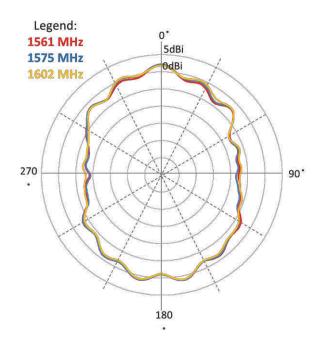


Data measured in free space and on reference ground plane of 80x40x0.8 mm ground plane condition, application data might vary.

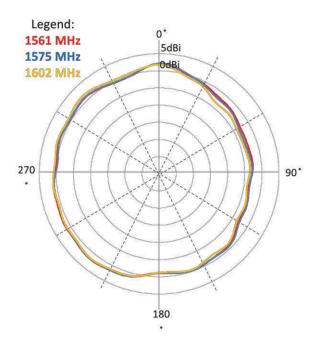
RADIATION PATTERN (SHOWN AS LO00703-01: GROUND SIZE: 80 X 40 X 0.8 MM.)



Elevation 1 (XZ)

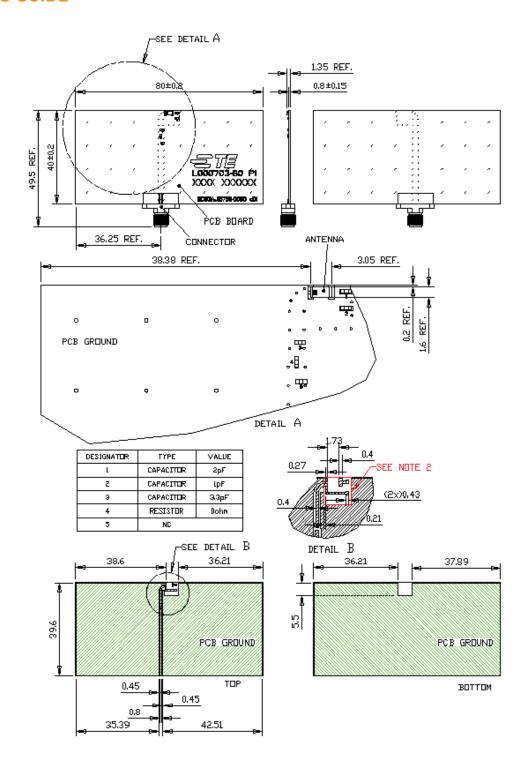


Elevation 2 (YZ)



Data measured in free space and on reference ground plane of 80x40x0.8 mm ground plane condition, application data might vary.

MOUNTING GUIDE



NOTES: 1. Suggested Matching component pads with matching circuit condition.

2. No copper allowed in designated area on all PCB layers -

3. For more information please call TE.

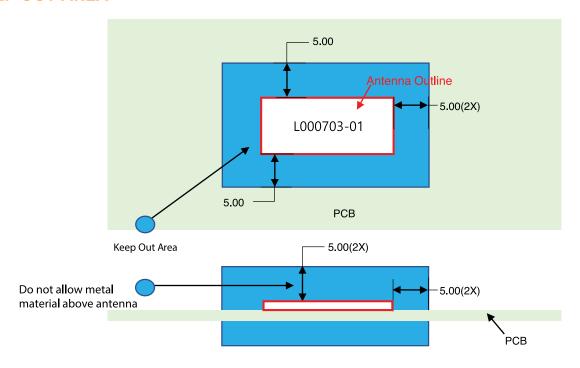
4. Reference PCB Dimension(mm) - 80.0 x 40.0 x 0.8

Dimension: mm

Tolerance: ±0.2mm

Diagrams is not to scale

KEEP OUT AREA

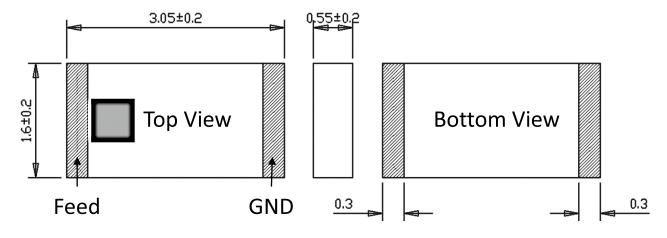


NOTES:1. Antenna designed to be mounted on PCB.

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

Dimensions: mm Diagram is not to scale

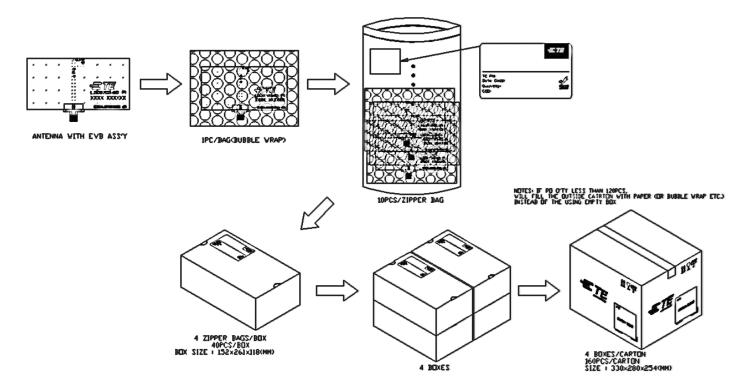
DIMENSIONS



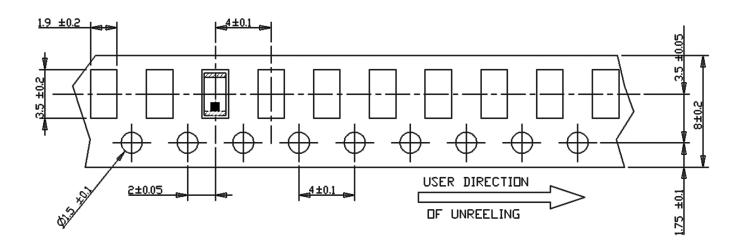
Dimensions: mm Diagram is not to scale

PACKAGING

L000703-80 (BULK)



L000703-01 (REEL)



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