



CERAMIC PATCH ANTENNA, 1575-1602MHz, SMD, 18X18X4MM

Part Numbers:

L000953-01

L000953-80

FEATURES

- L1 GPS bands for GNSS
- Passive Patch Antenna; SMD
- The following data is based on 50 x 50 x 1mm ground size
- No matching circuits required for evaluation board

RF SPECIFICATIONS

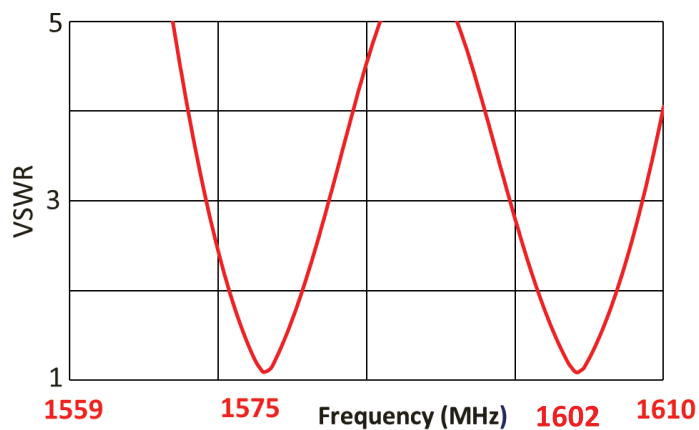
Frequency Range (MHz)	1575.42	1602
Bandwidth (MHz)	±1.023	±5
VSWR (center frequency)	<2.0:1	<2.0:1
Peak Gain at Zenith	Typ. 0.5 dBi	Typ. 0.6 dBi
Average Gain	-1.5 dB	-1.7 dB
Efficiency (%)	70%	65%
Feed Point Impedance	50 ohms	
Polarization	Right Hand Polarization (RHP)	

MECHANICAL SPECIFICATIONS

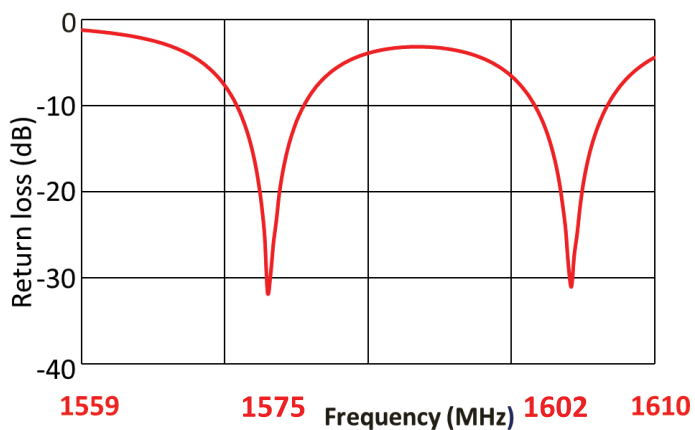
Size (L x W x H)	18.0 mm x 18.0 mm x 4.0 mm (L/W/H ± 0.15)
Weight	< 10 g
Mounting	SMD (Surface Mount Device)
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +105°C
Storage Temperature	-40 to +105°C
Dielectric Material	Ceramic
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

RF DATA (SHOWN AS L000953-01: GROUND SIZE : 50 X 50 X 1.0)

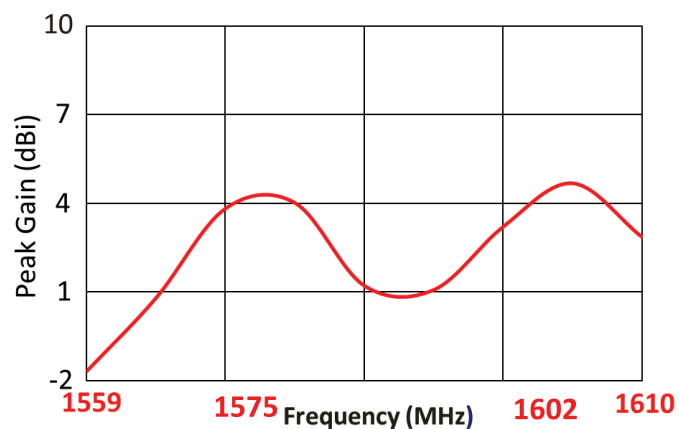
VSWR



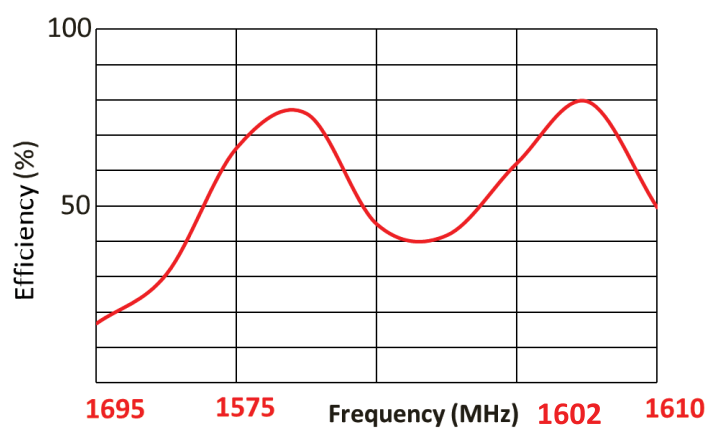
Return Loss



Peak Gain

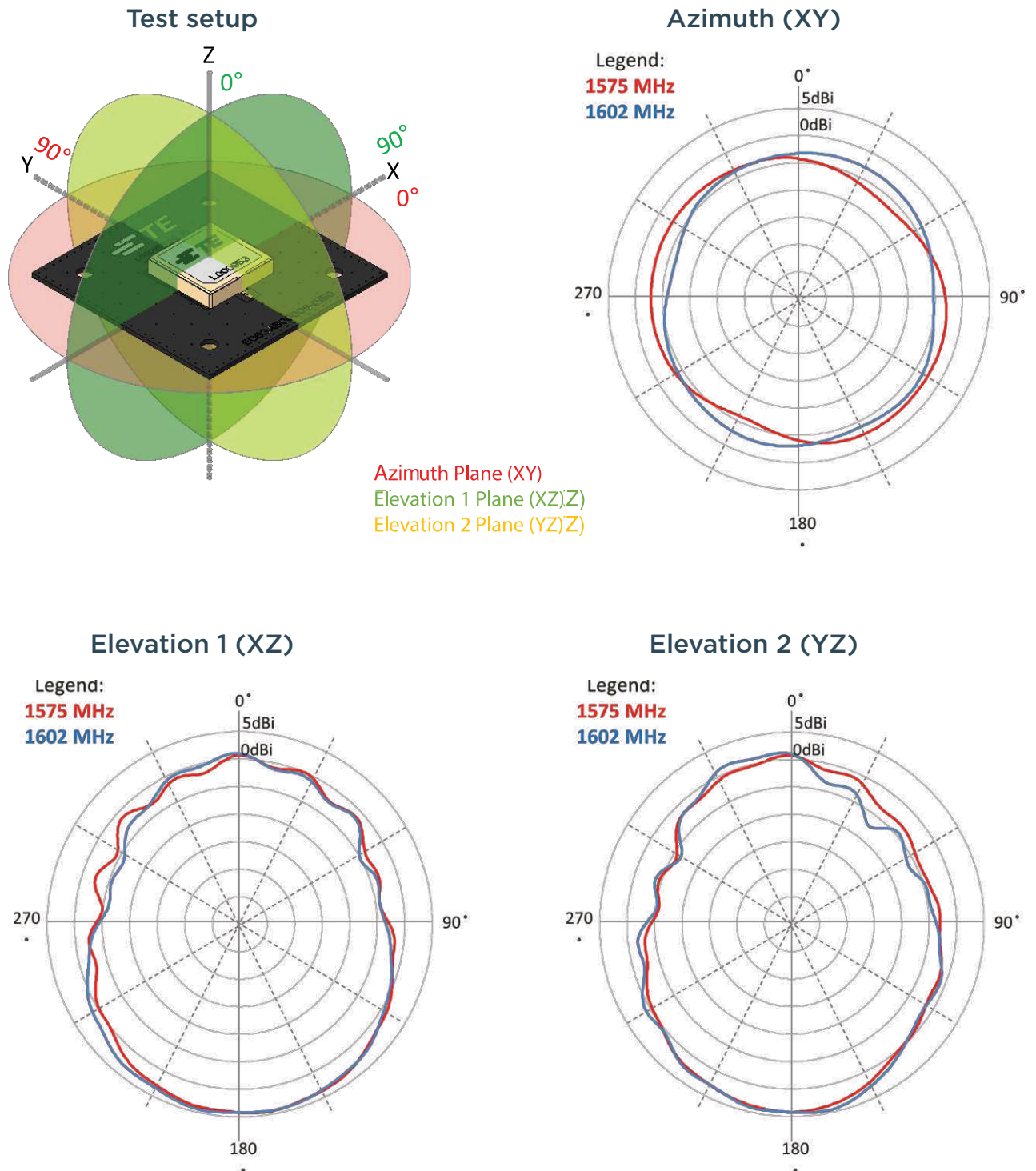


Efficiency



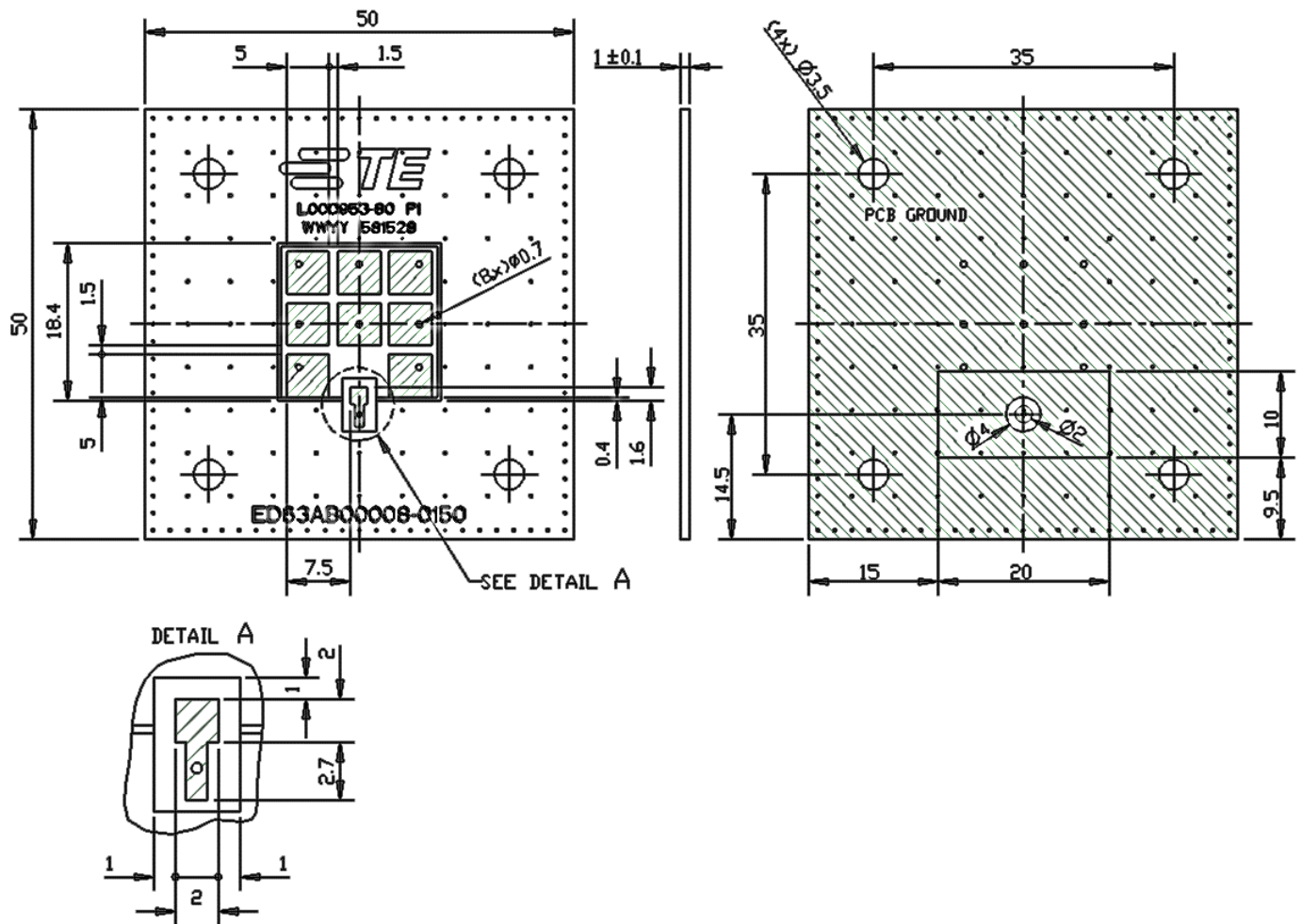
Data measured in free space and on reference ground plane of 50 x 50 x 1.0 mm ground plane condition, application data might vary.

RADIATION PATTERN (SHOWN AS L000953-01: GROUND SIZE : 50 X 50 X 1.0 MM.)



Data measured in free space and on reference ground plane of
50 x 50 x 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.

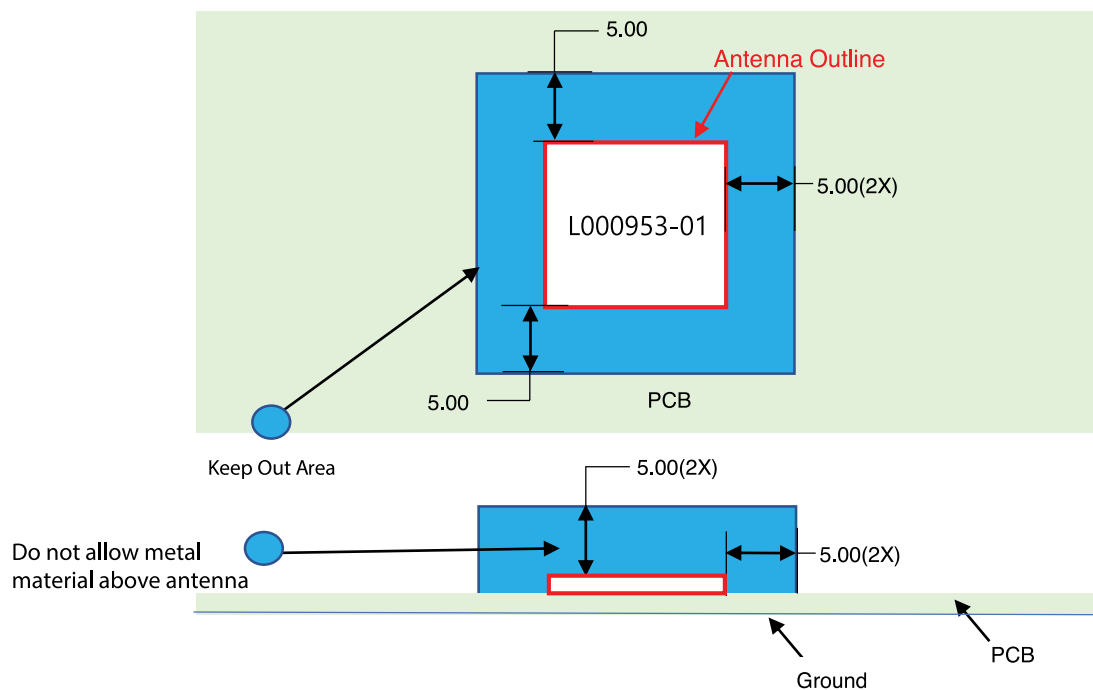
3. Reference PCB Dimension(mm) - 50.0 x 50.0 x 1.0

Dimension: mm

Tolerance : ±0.2mm

Diagrams is not to scale

KEEP OUT AREA



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

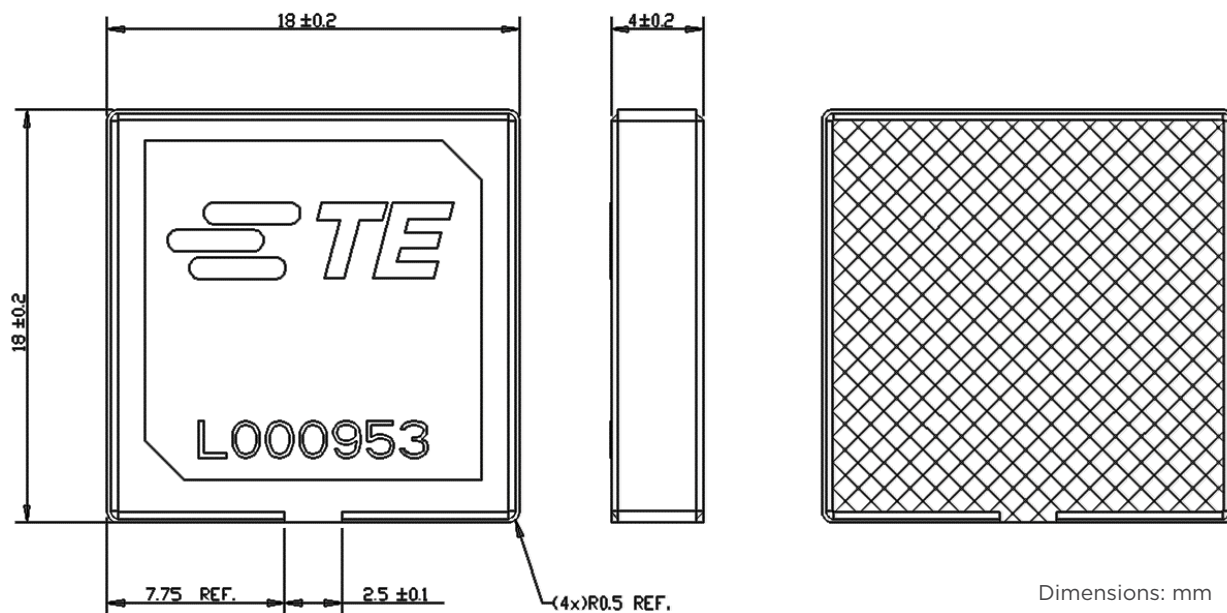
2. Area in blue above indicates Keep Out Area.

3. For more information please call TE.

Dimensions: mm

Diagram is not to scale

DIMENSIONS

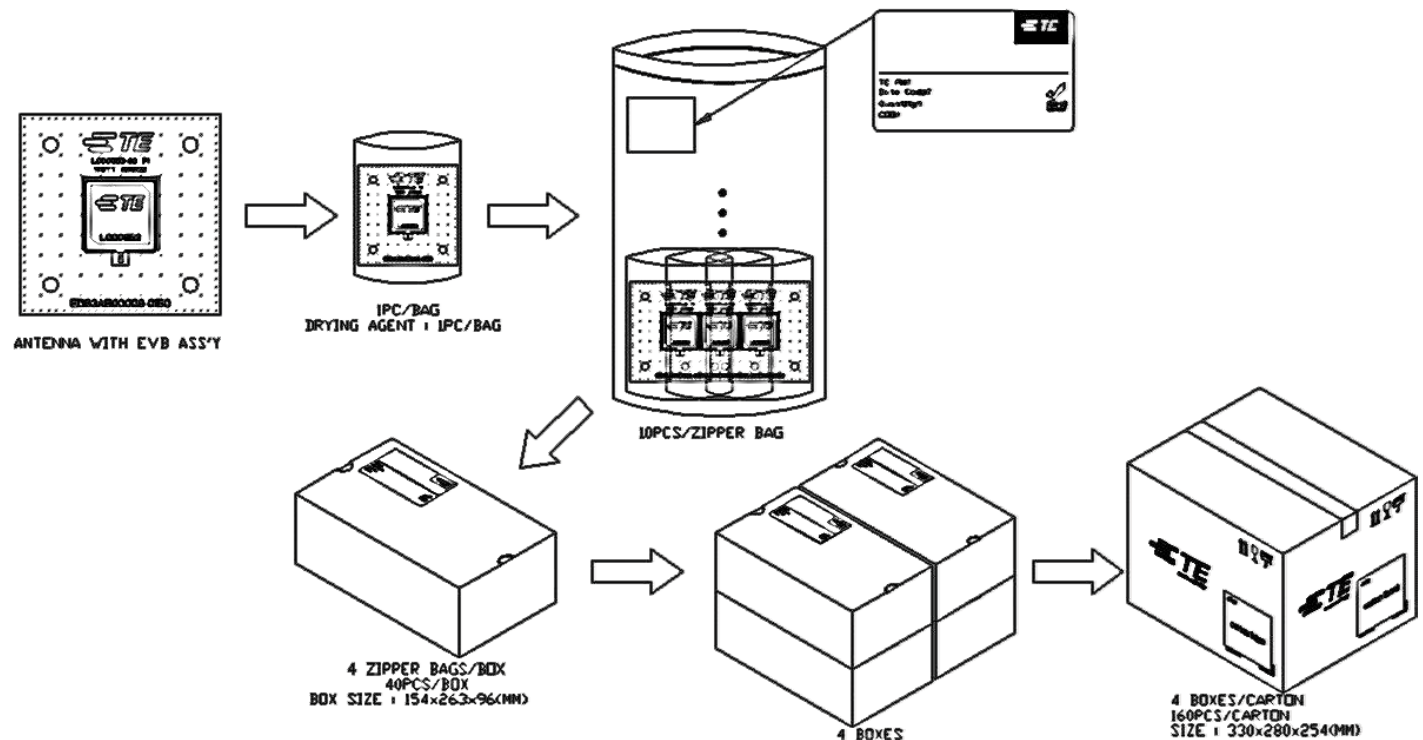


Dimensions: mm

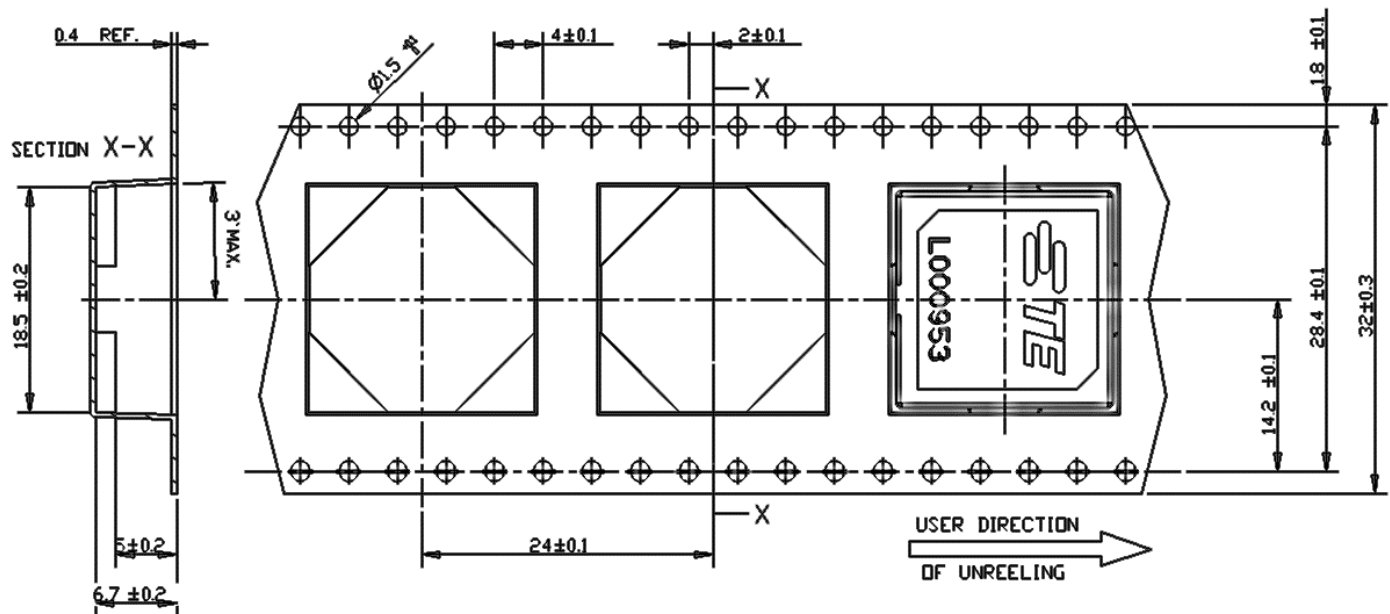
Diagram is not to scale

PACKAGING

L000953-80 (BULK)



L000953-01 (REEL)



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Standard Antenna Solutions

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