



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

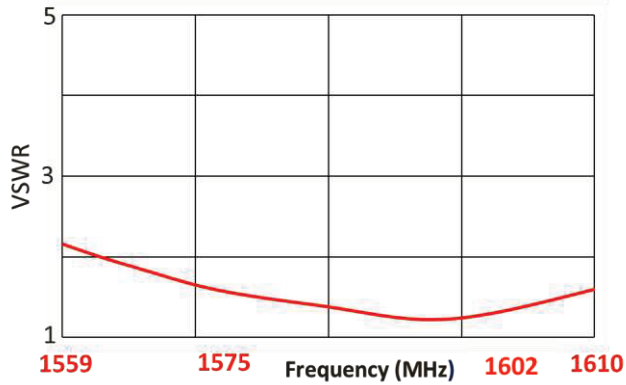
Frequency Range (MHz)	1561.098	1575.42	1602
Bandwidth (MHz)	±2.046	±1.023	±5
VSWR (center frequency)	<2.5:1	<2.5:1	<2.5:1
Peak Gain at Zenith	Typ. 2.0 dBi	Typ. 2.0 dBi	Typ. 1.8 dBi
Average Gain	-1.8 dB	-1.8 dB	-1.9 dB
Efficiency (%)	63%	64%	62%
Feed Point Impedance	50 ohms		
Polarization	Linear polarization		

MECHANICAL SPECIFICATIONS

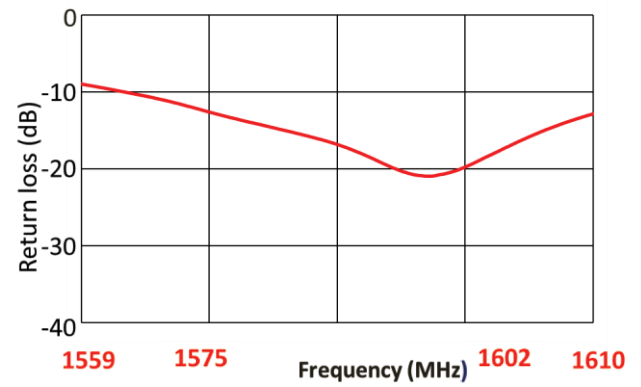
Size (L x W x H)	3.05 mm x 1.6 mm x 0.55 mm (L/W/H ± 0.15)
Weight	< 0.1 g
Mounting	SMD (Surface Mount Device)
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Dielectric Material	Ceramic
Hazardous Materials	A certificate of conformance is available from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

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

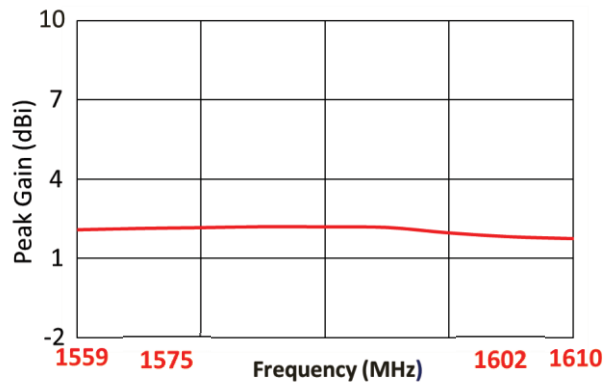
VSWR



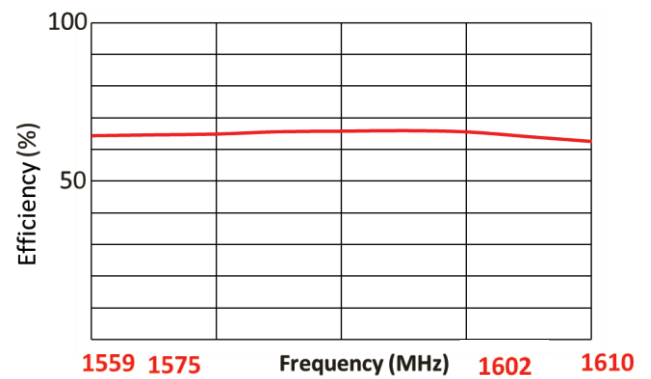
Return Loss



Peak Gain

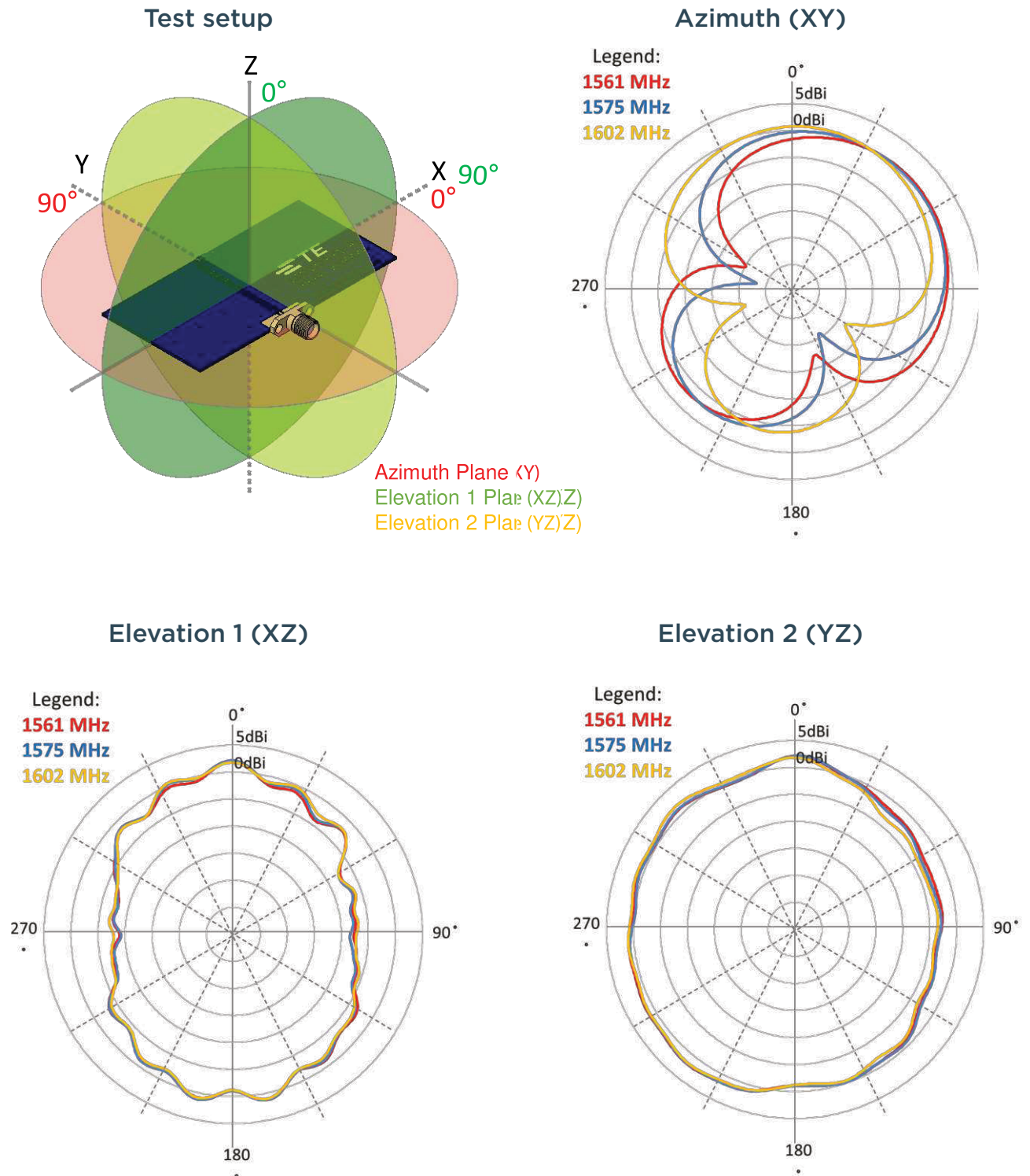


Efficiency



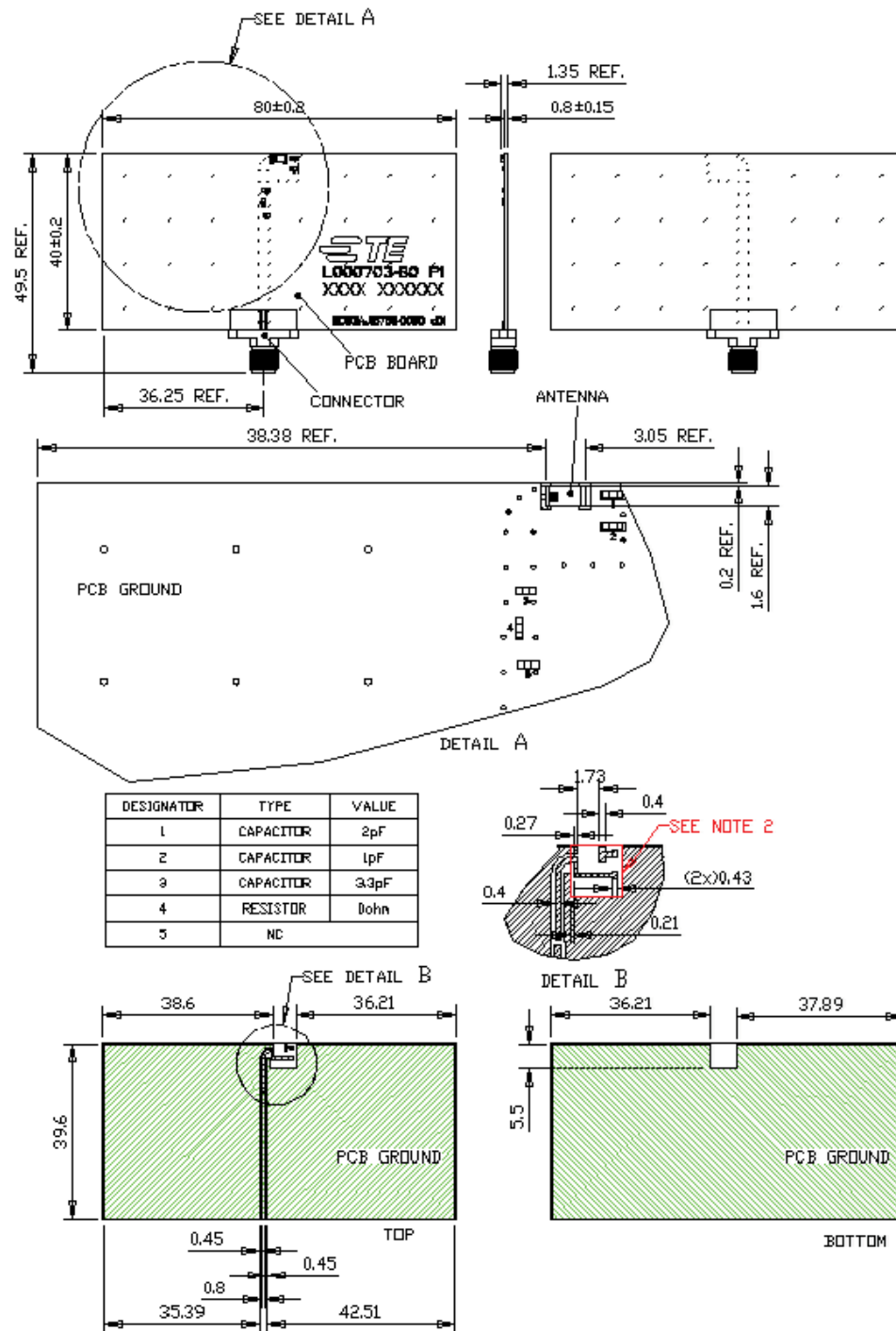
Data measured in free space and on reference ground plane of 80x40x0.8 mm ground plane condition, application data might vary.

RADIATION PATTERN (SHOWN AS 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.

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.

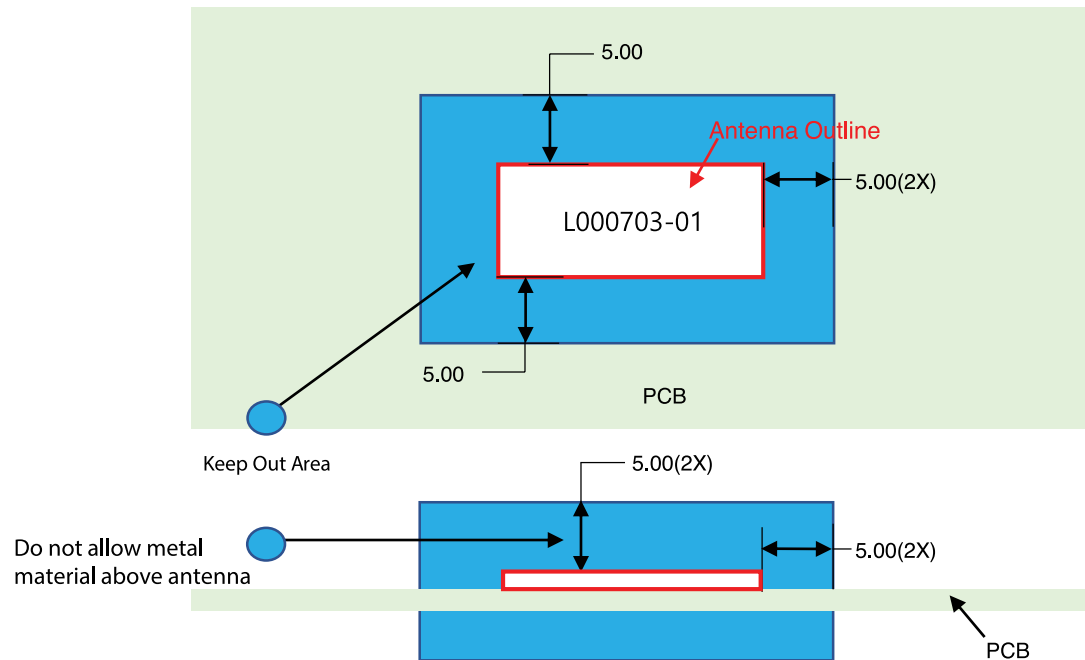
4. Reference PCB Dimension(mm) - 80.0 x 40.0 x 0.8

Dimension: mm

Tolerance : ±0.2mm

Diagrams is not to scale

KEEP OUT AREA



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

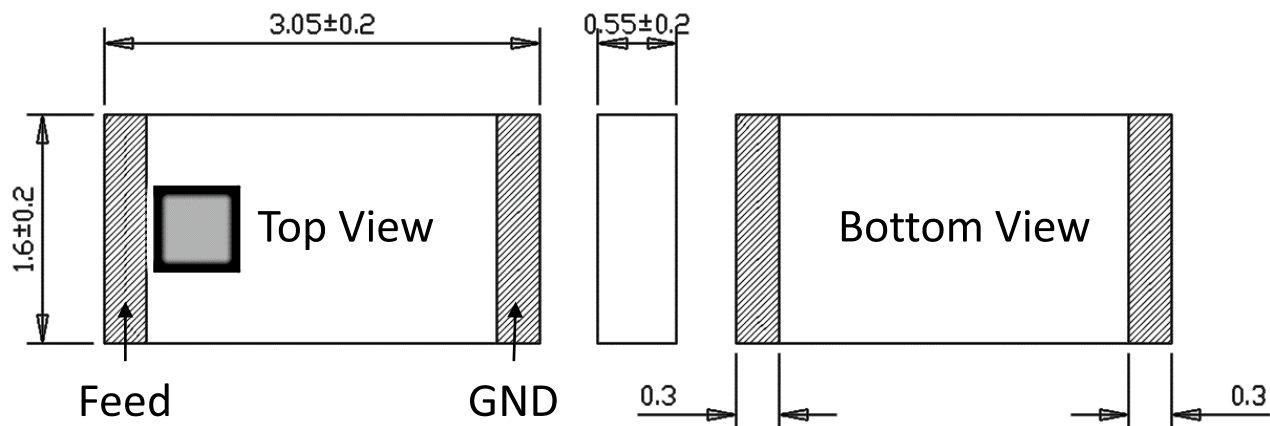
2. Area in blue above indicates Keep Out Area.

3. For more information please call TE.

Dimensions: mm

Diagram is not to scale

DIMENSIONS

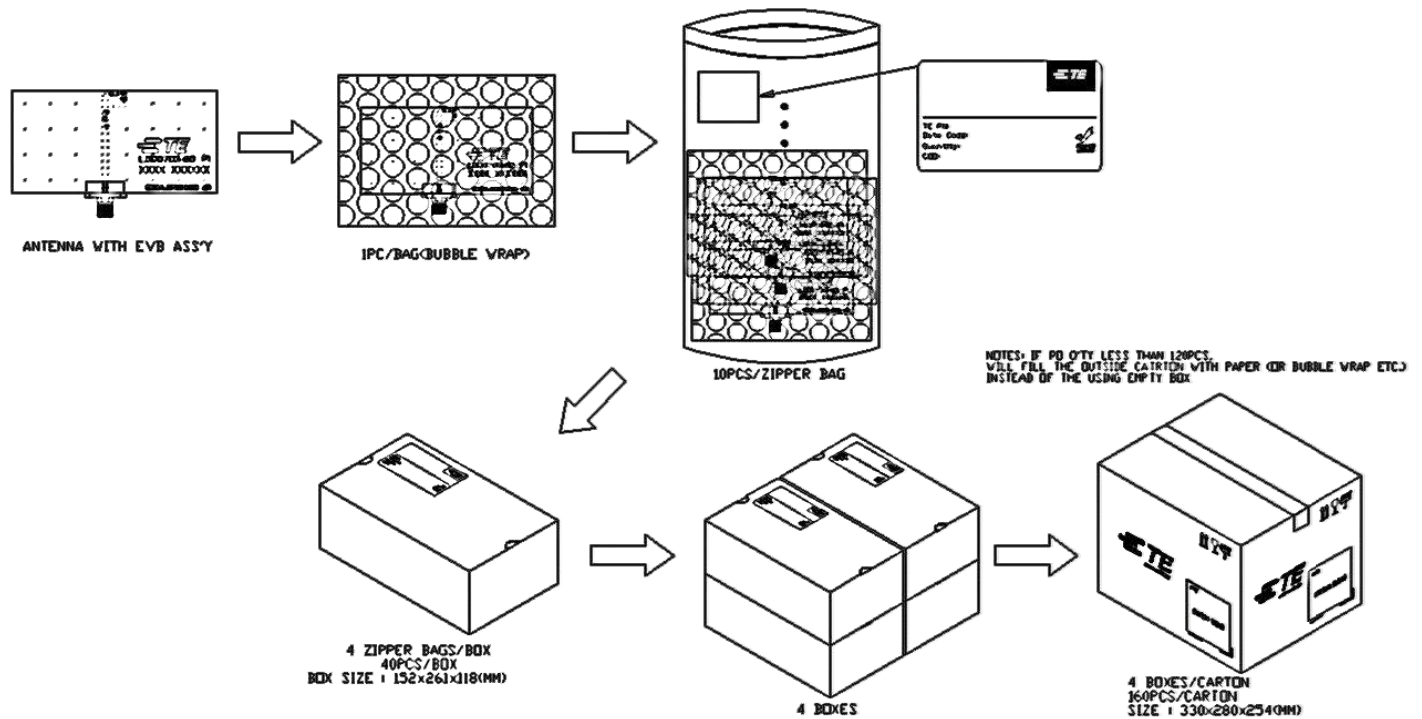


Dimensions: mm

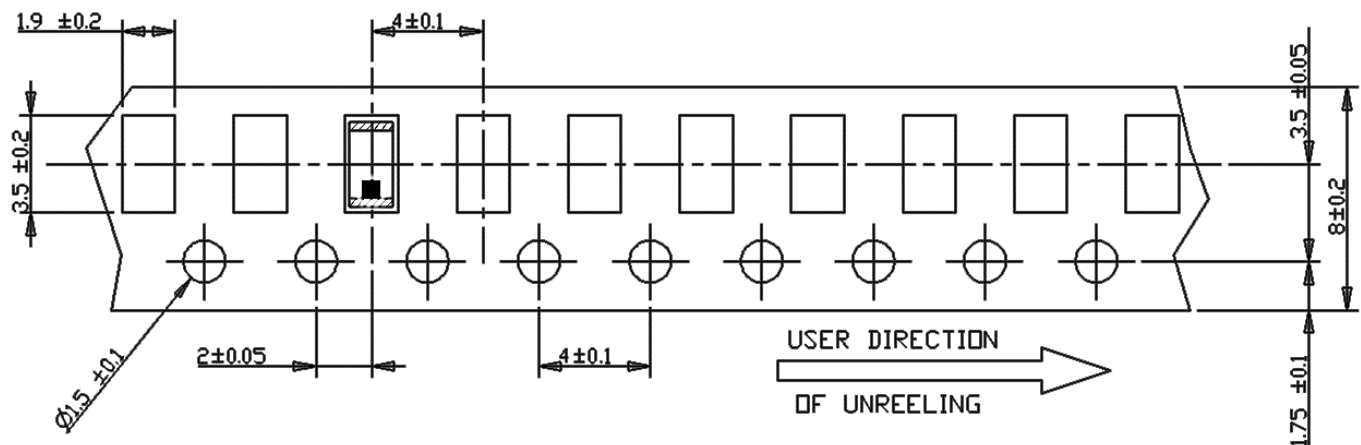
Diagram is not to scale

PACKAGING

L000703-80 (BULK)



L000703-01 (REEL)



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Standard Antenna Solutions

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
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11-24