

WiFi Pillar PCB SMD ANTENNA 3x6x10mm

**Part Number: L000949-01
L000949-80**

FEATURES & BENEFITS

- DUAL BAND WLAN/Bluetooth/IEEE802.11 a/b/g/n/ac Application.
- Stand Vertically PCB SMD Chip Antenna with evaluation board 80 x 80 mm² , that has the advantage of small clearance area than horizontal antenna.
- Small matching circuits area with designed on the evaluation board.

RF SPECIFICATIONS

Frequency Range (MHz)	2400-2484	5150-5850
Bandwidth (MHz)	84 MHz	700 MHz
VSWR (center frequency)	< 3.0:1	< 3.0:1
Peak Gain (Typ.)	1.3 dBi	1.34 dBi
Average Gain (Typ.)	-2.5 dB	-2.0 dB
Efficiency (Typ.)	56 %	65 %
Feed Point Impedance	50 ohms	
Polarization	Linear Polarization	

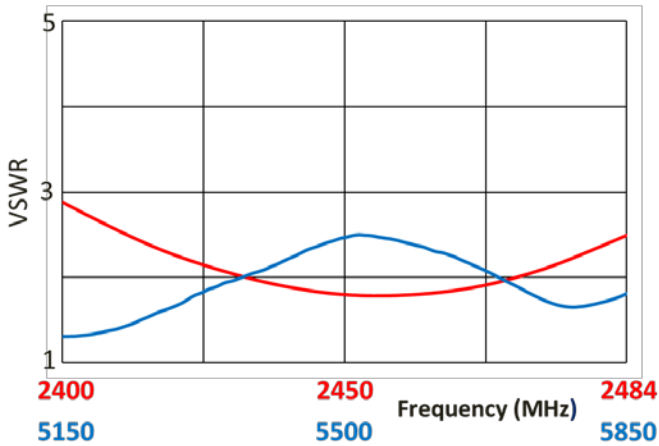
MECHANICAL SPECIFICATIONS

Size (L x W x H)	3.0 mm x 6.0 mm x 10.0 mm (L/W/H ± 0.15)
Weight	< 0.5 g
Mounting	SMD (Surface Mount Device)
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to + 85°C
Storage Temperature	-5 to + 40°C
Dielectric Material	FR4
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

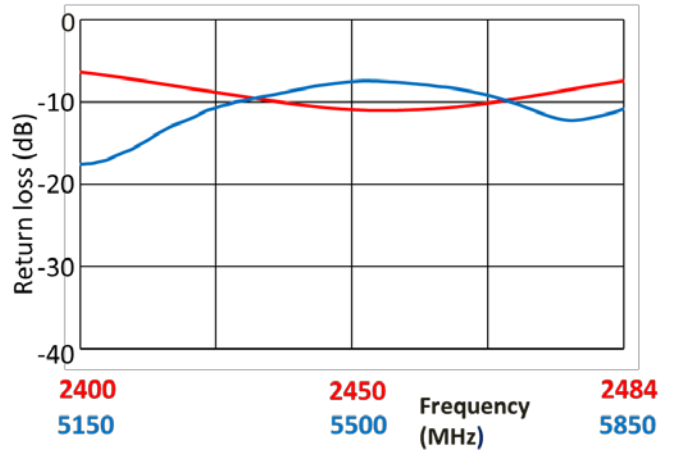
RF DATA

(shown as L000949-01 : Ground size : 80 x 80 x 1 mm.)

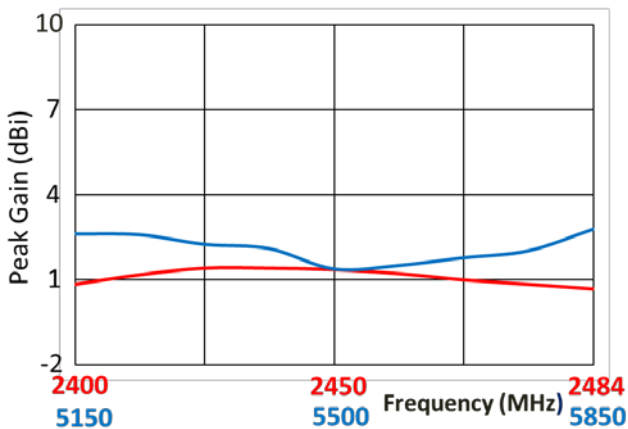
VSWR



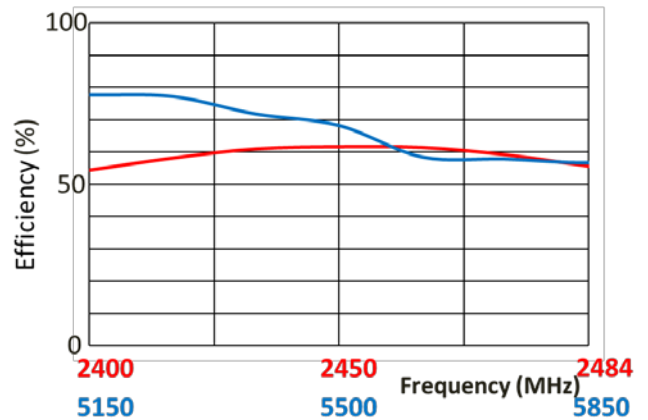
Return Loss



Peak Gain



Efficiency

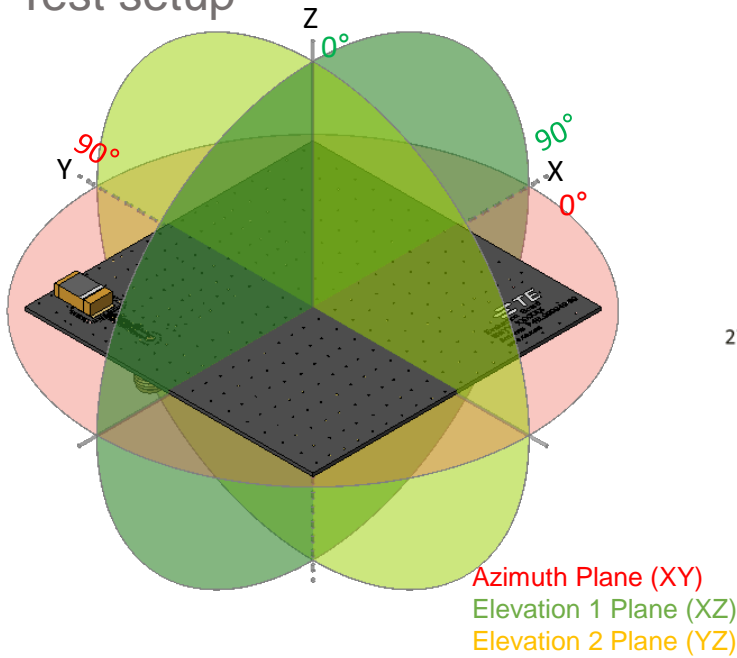


Data measured in free space and on reference ground plane of 80x80x1 mm ground plane condition, application data might vary.

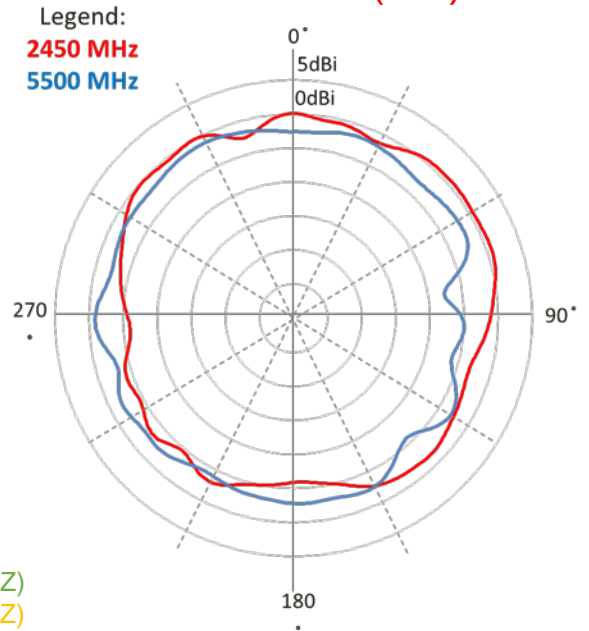
RADIATION PATTERN

(shown as L000948-01 : Ground size : 80 x 80 x 1 mm.)

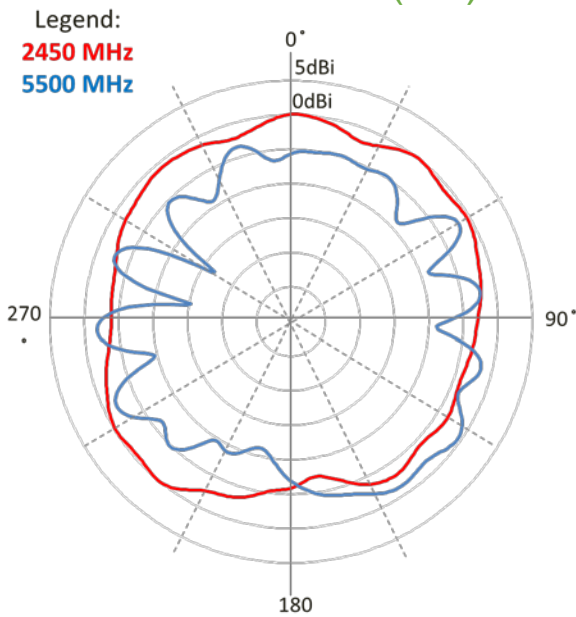
Test setup



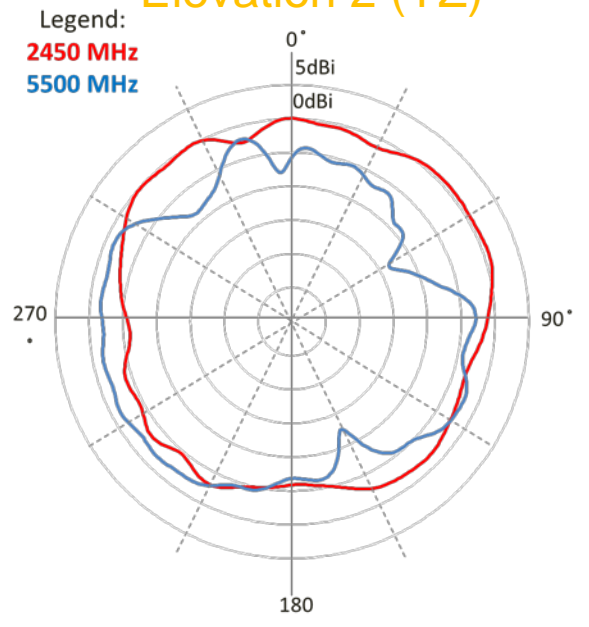
Azimuth (XY)



Elevation 1 (XZ)

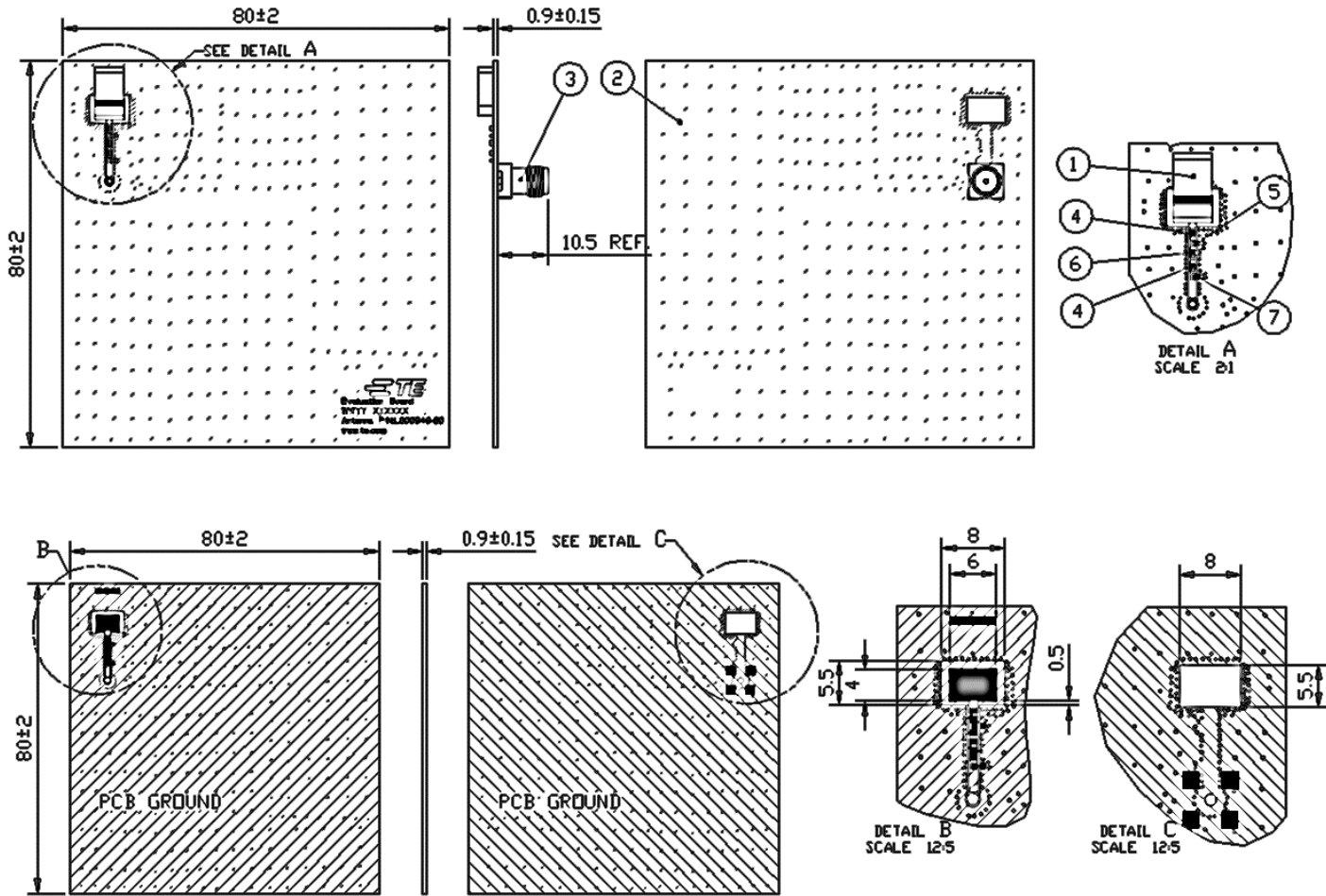


Elevation 2 (YZ)



Data measured in free space and on reference ground plane of 80x80x1 mm ground plane condition, application data might vary.

MOUNTING GUIDE AND MATCHING CIRCUIT

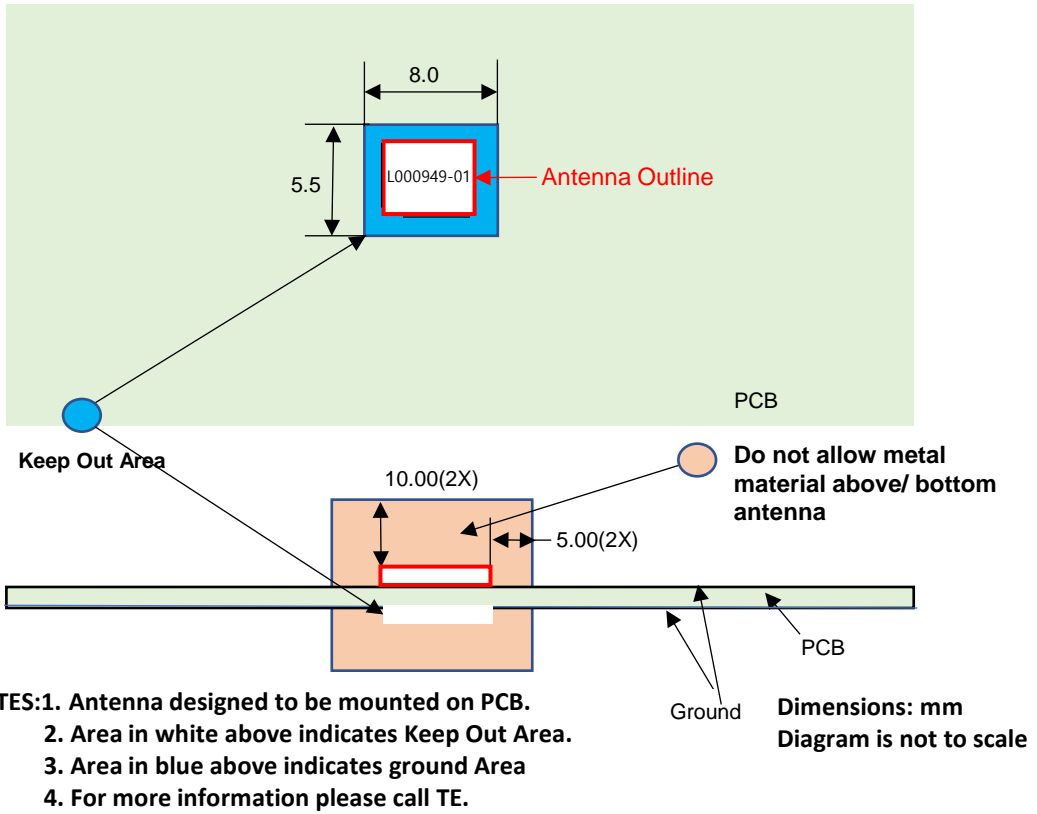


Dimensions: mm
Tolerance : ±0.2mm
Diagram is not to scale

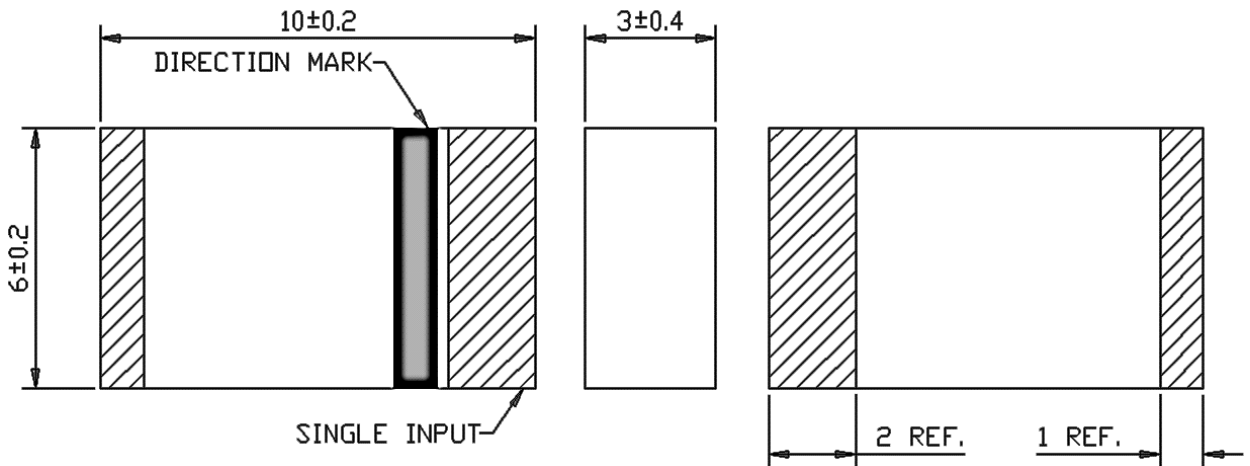
7	0402 CAPACITOR(0.2pF)	1
6	0402 CAPACITOR(5pF)	1
5	0402 CAPACITOR(0.4pF)	1
4	0402 RESISTOR(00hm)	2
3	SMA Connector(Female)	1
2	EVB	1
1	ANTENNA	1
ITEM	DESCRIPTION	Q'TY(PC)

- NOTES: 1. Antenna must be mounted on the edge of PCB.
2. For more information please call TE.
3. Reference PCB Dimension(mm) - 80.0 x 80.0 x 1.0

KEEP OUT AREA



DIMENSIONS & PIN Definitions

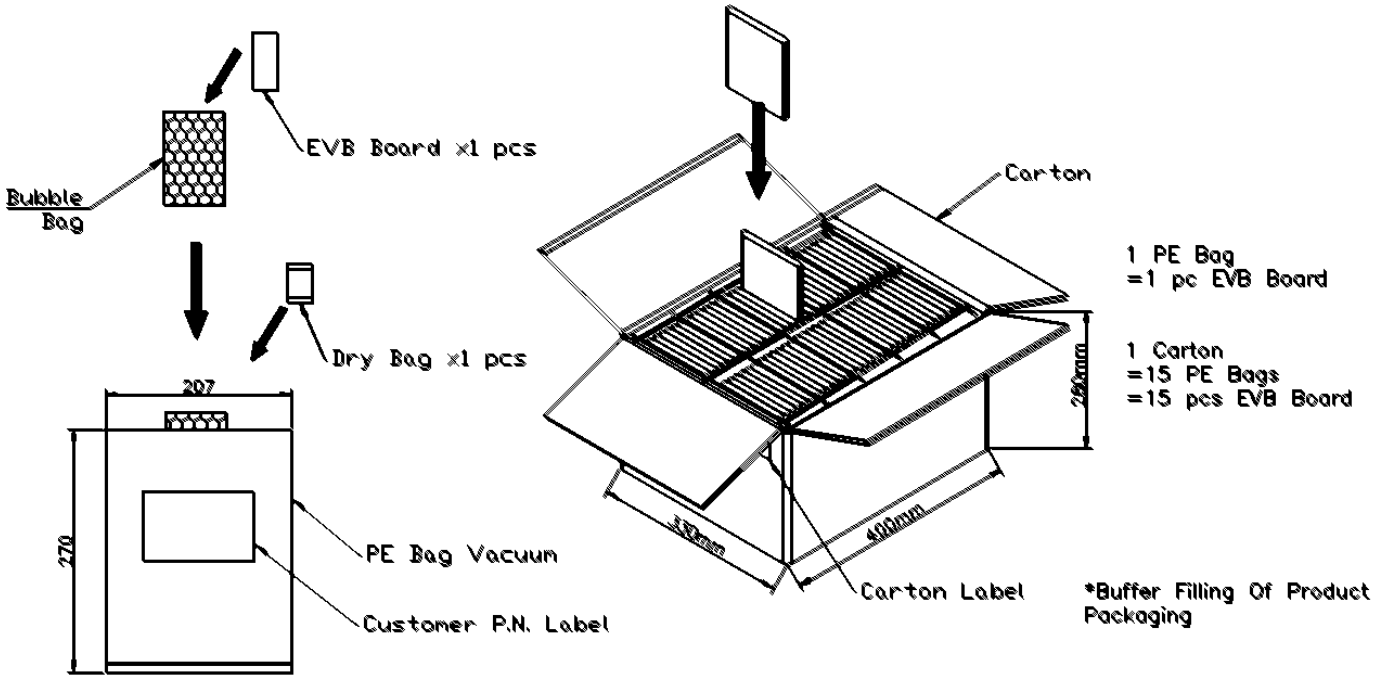


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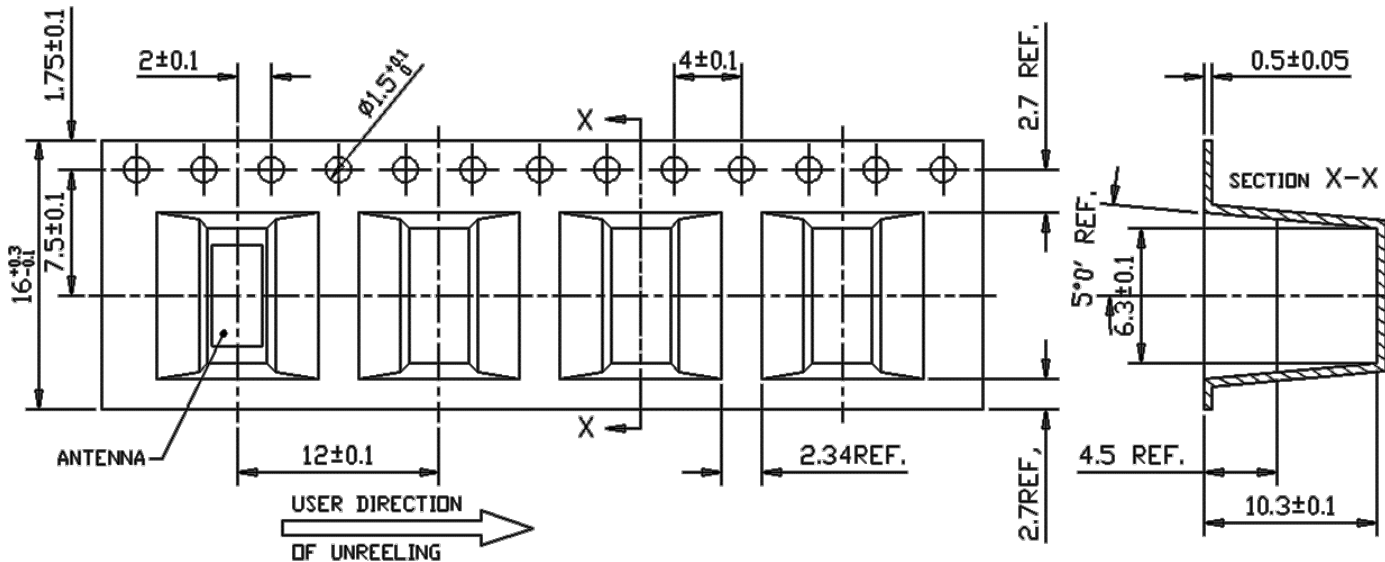
Standard Antenna Solutions

PACKAGING

L000949-80 (BULK)



L000949-01 (REEL)



Q'TY/REEL : 500PCS/REEL

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Standard Antenna Solutions

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