

WiFi6E Triple Band Ceramic SMD Antenna 3.2x1.6x0.5 mm

Part Number: **L000950-01**
L000950-80

FEATURES & BENEFITS

- Supporting WiFi Triple band, covering 2.4~2.5 GHz & 5.15~5.85 GHz & 5.925~7.125 GHz, WLAN/Bluetooth/IEEE802.11 a/b/g/n/ac Application.
- SMD Passive Ceramic Patch Antenna with evaluation board 80 x 40 mm²,
- With Good VSWR/ Gain for small size and clearance, ultra-low profile
- With matching circuits that designed on the evaluation board.

RF SPECIFICATIONS

Frequency Range (MHz)	2400-2484	5150-5850	5925-7125
Bandwidth (MHz)	84 MHz	700 MHz	1200 MHz
VSWR (center frequency)	< 1.5:1	< 3.2:1	< 2.0:1
Peak Gain (Typ.)	0.7 dBi	0.8 dBi	-0.3 dBi
Average Gain (Typ.)	-2.4 dB	-2.6 dB	-4.1 dB
Efficiency (Typ.)	54 %	52 %	42 %
Feed Point Impedance	50 ohms		
Polarization	Linear Polarization		

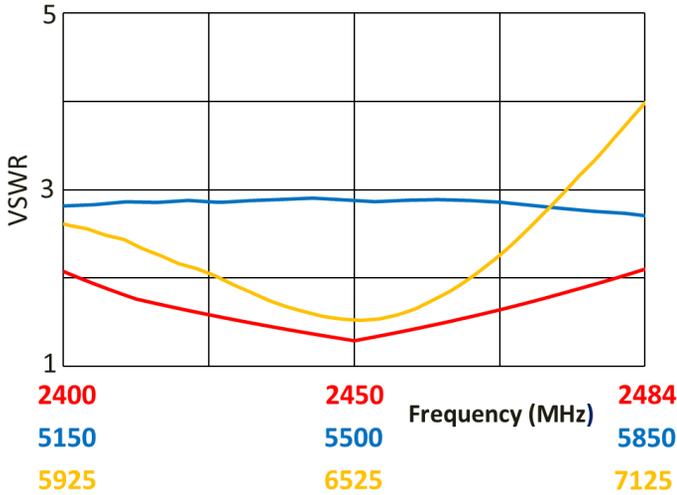
MECHANICAL SPECIFICATIONS

Size (L x W x H)	3.2 mm x 1.6 mm x 0.5 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	-5 to + 40°C
Dielectric Material	Ceramic
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

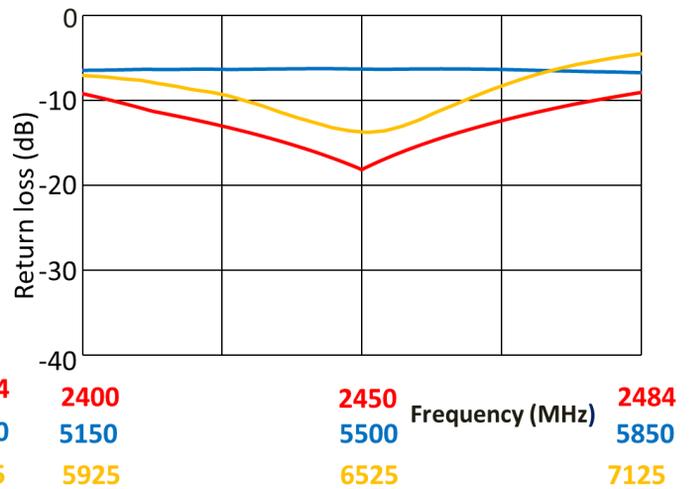
RF DATA

(shown as L000950-01 : Ground size : 80 x 40 x 1 mm.)

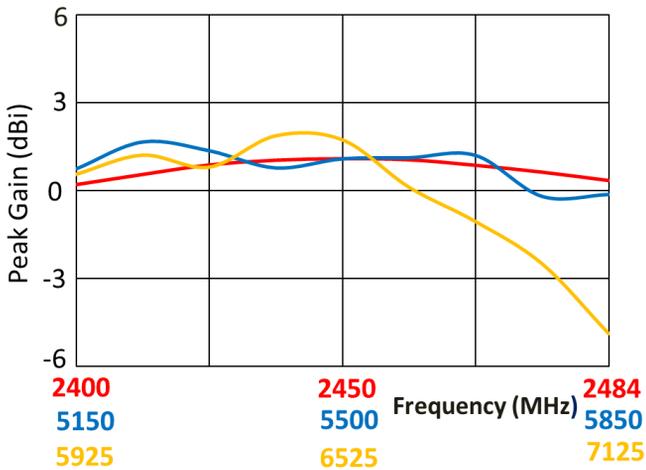
VSWR



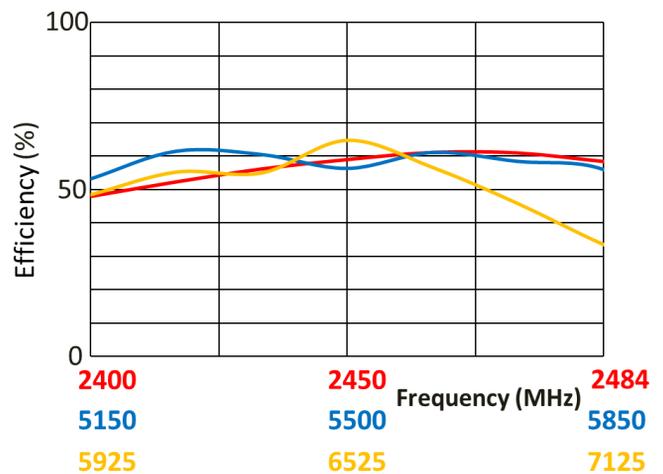
Return Loss



Peak Gain



Efficiency

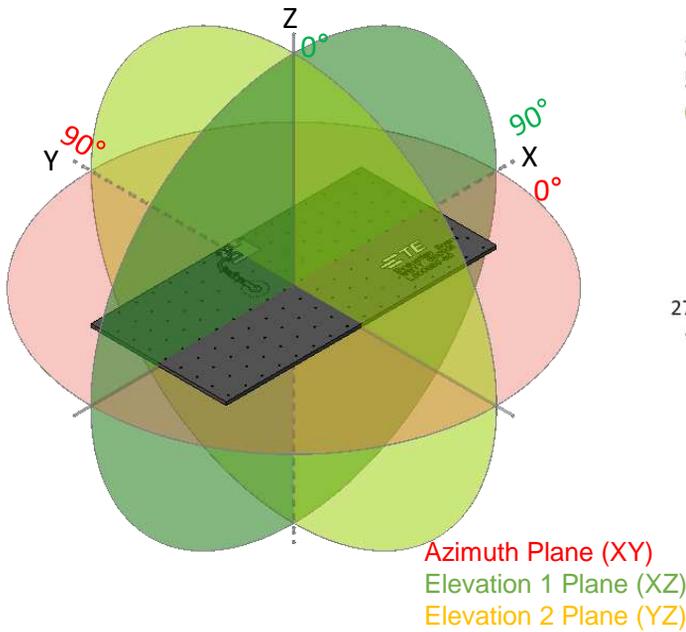


Data measured in free space and on reference ground plane of 80x40x1 mm ground plane condition, application data might vary.

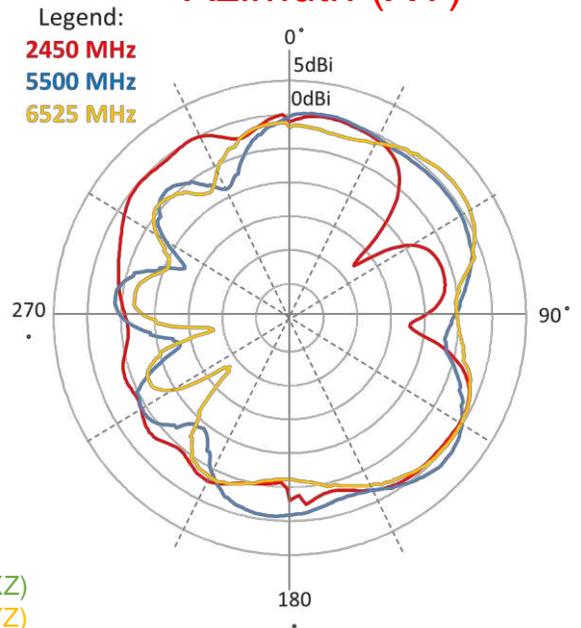
RADIATION PATTERN

(shown as L000950-01 : Ground size : 80 x 40 x 1 mm.)

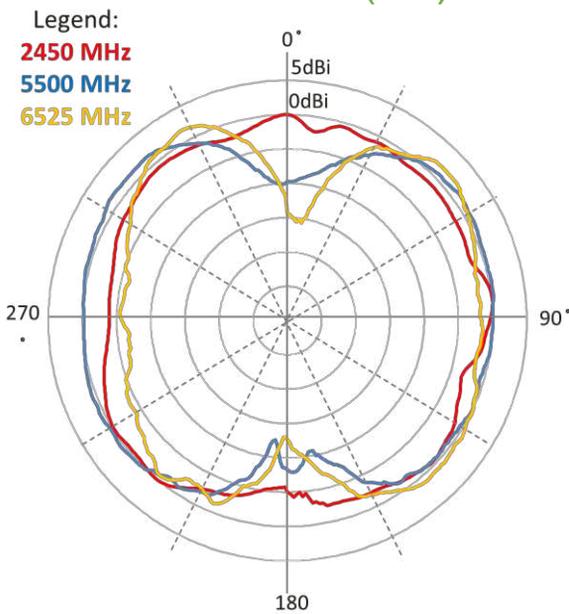
Test setup



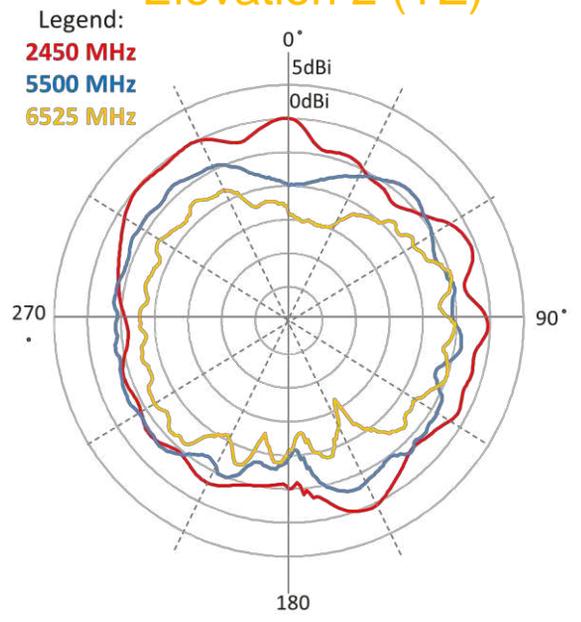
Azimuth (XY)



Elevation 1 (XZ)



Elevation 2 (YZ)

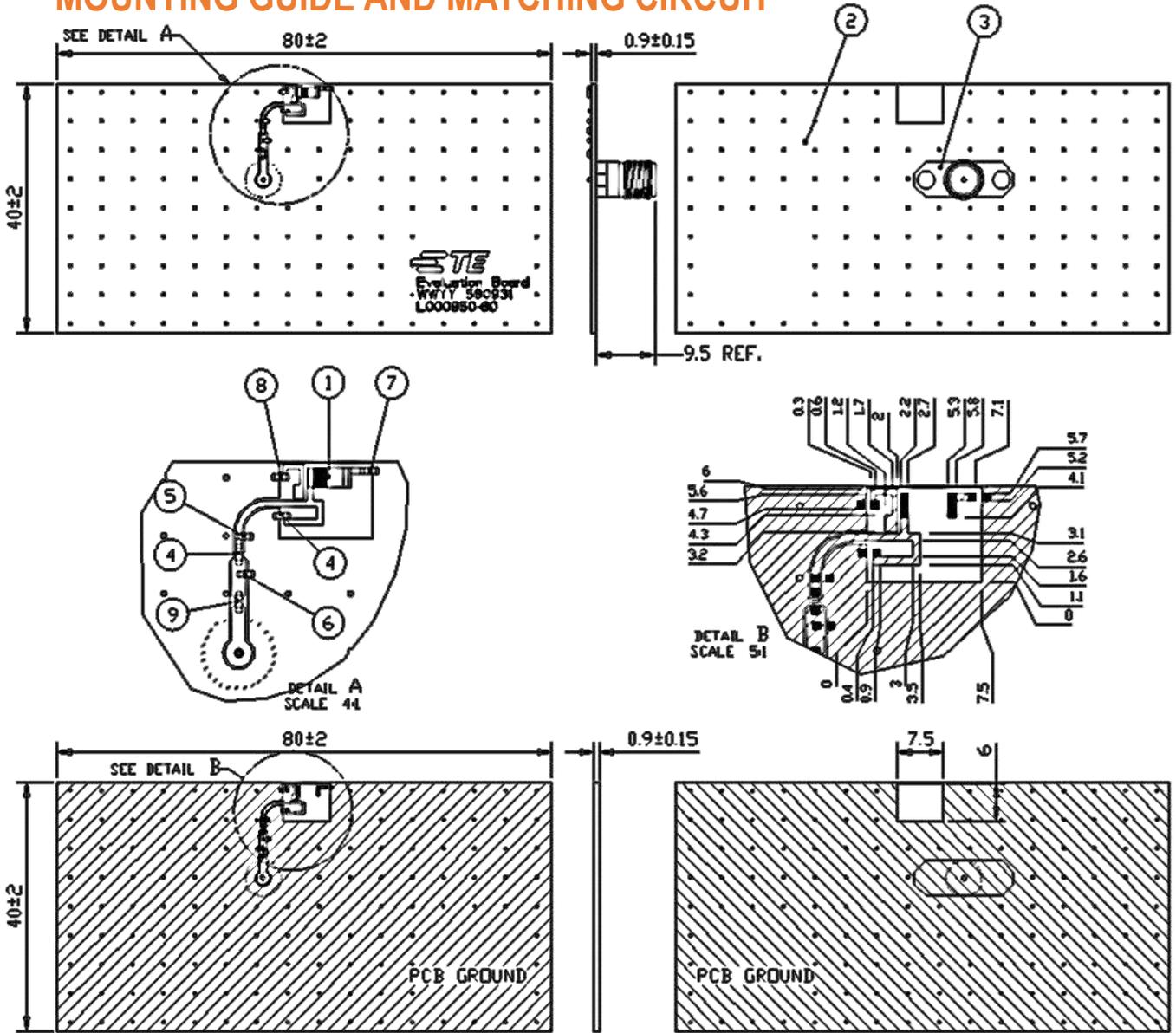


Data measured in free space and on reference ground plane of 80x40x1 mm ground plane condition, application data might vary.

WiFi6E Triple Band Ceramic SMD ANTENNA 3.2x 1.6x 0.5 mm

Standard Antenna Solutions

MOUNTING GUIDE AND MATCHING CIRCUIT



9	0402 CAPACITOR(3.3pF)	1
8	0402 CAPACITOR(0.2pF)	1
7	0402 CAPACITOR(2.2pF)	1
6	0402 INDUCTOR(15nH)	1
5	0402 INDUCTOR(8.2nH)	1
4	0402 RESISTOR(0Ohm)	2
3	SMA Connector(Female)	1
2	EVB	1
1	ANTENNA	1
ITEM	DESCRIPTION	Q'TY(PC)

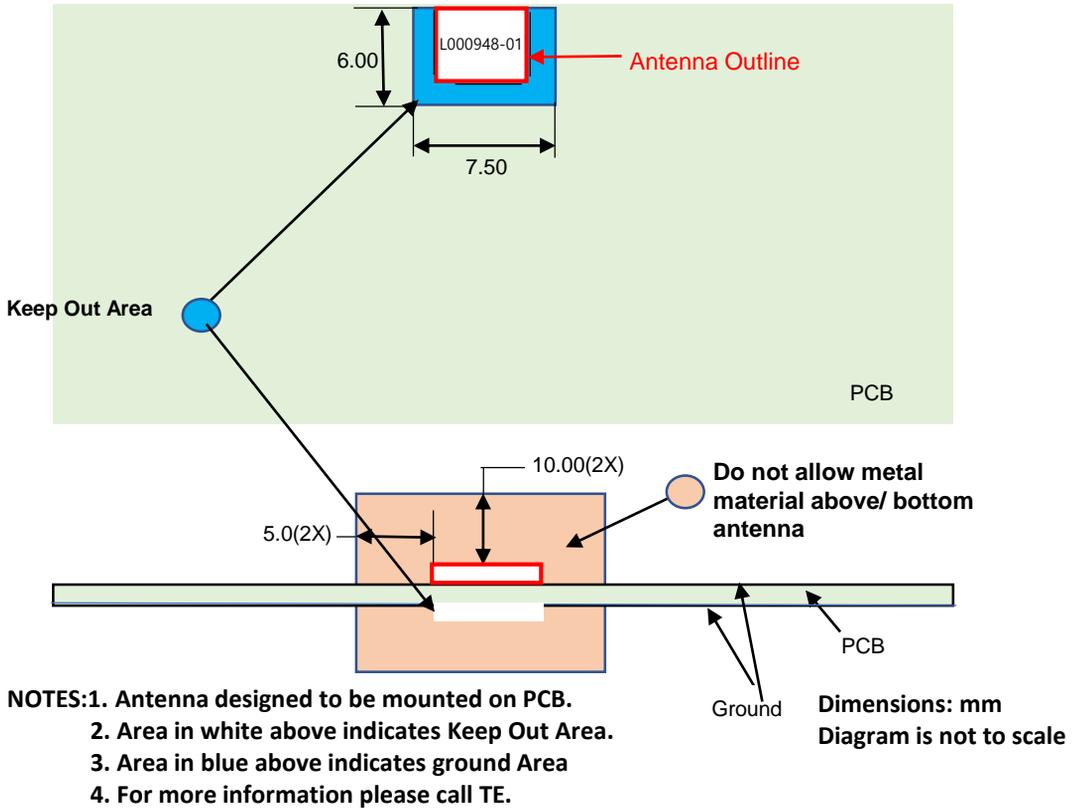
Dimensions: mm
Tolerance : ±0.2mm
Diagram is not to scale

- 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 40.0 x 1.0

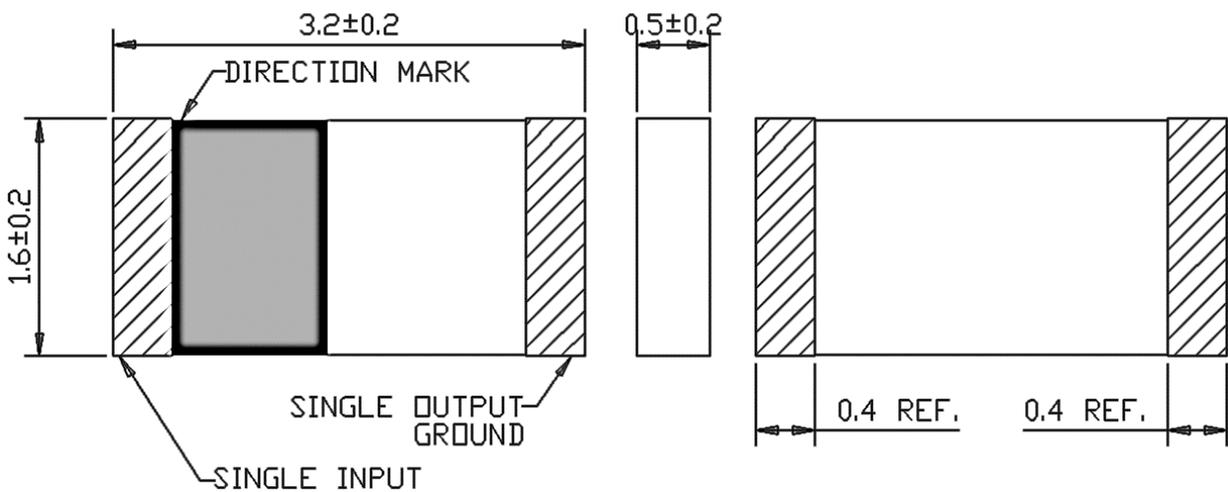
WiFi6E Triple Band Ceramic SMD ANTENNA 3.2x 1.6x 0.5 mm

Standard Antenna Solutions

KEEP OUT AREA

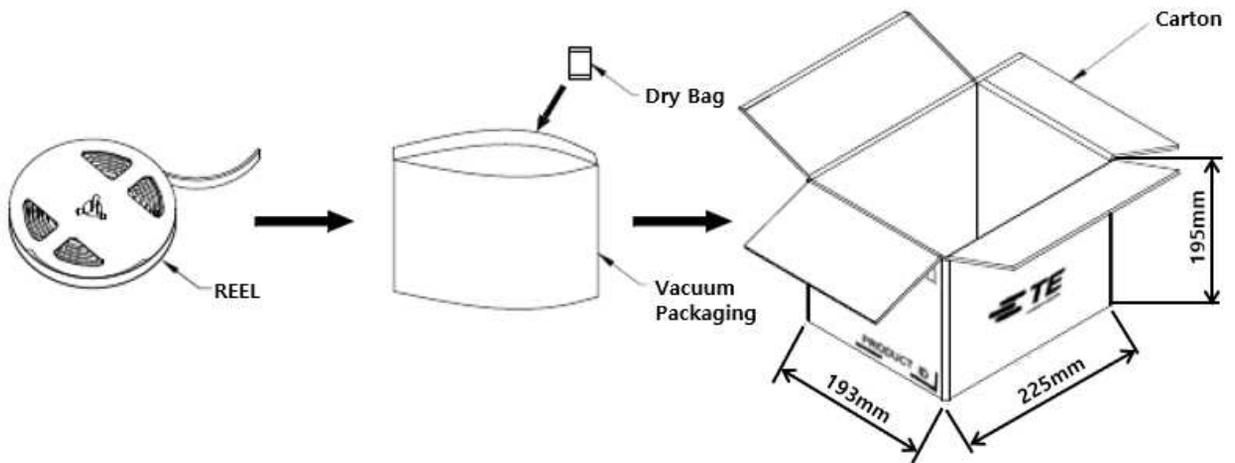
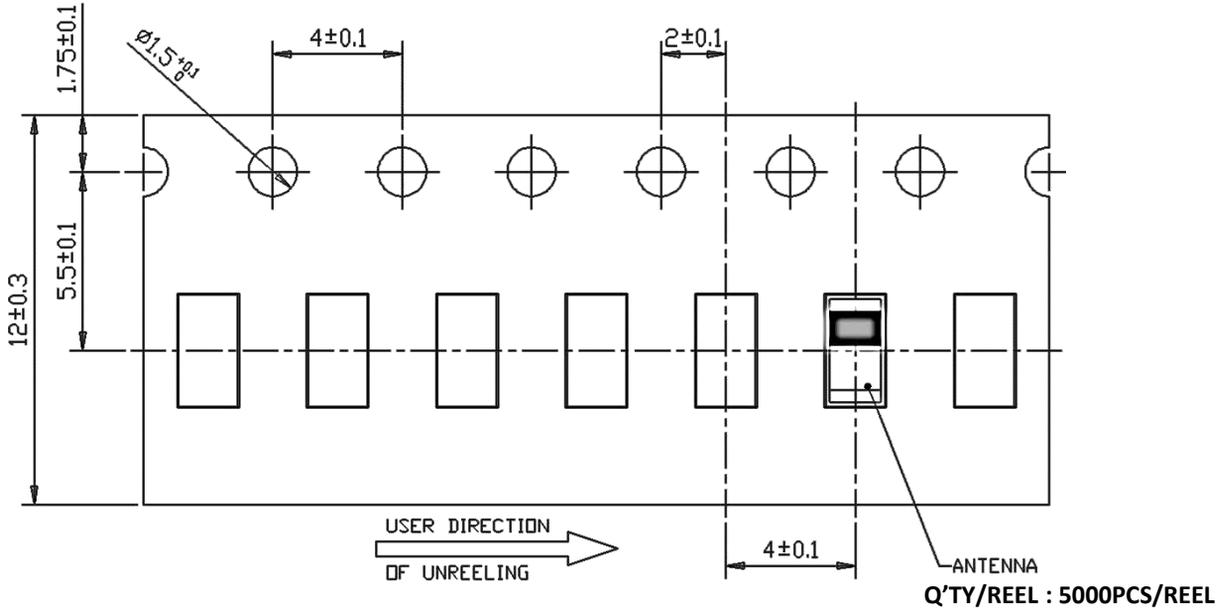


DIMENSIONS and PIN Definitions



PACKAGING

L000950-01 (REEL)



1Carton = 1REEL = 5000pcs

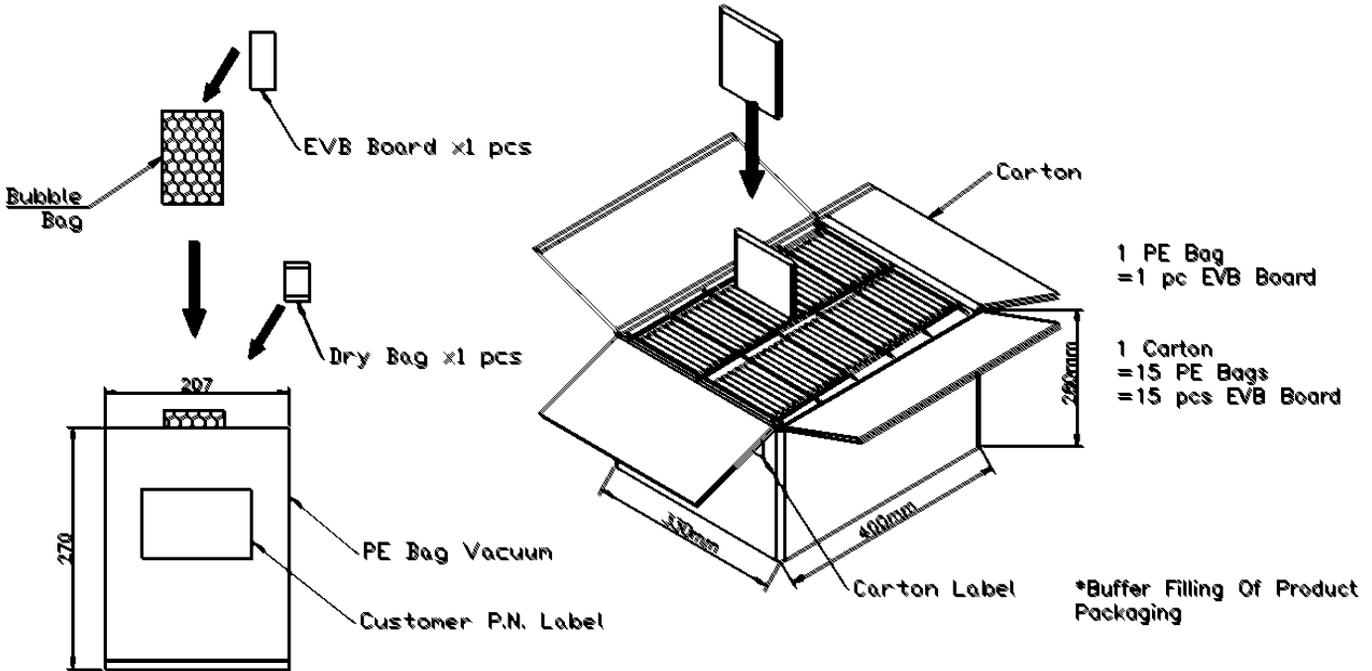
* Using Air pillows for packaging

WiFi6E Triple Band Ceramic SMD ANTENNA 3.2x 1.6x 0.5 mm

Standard Antenna Solutions

PACKAGING

L000950-80 (BULK)



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
- France: +33 (0) 1-3420-8686
- Netherlands: +31 (0) 73-6246-999
- China: +86 (0) 400-820-6015

For phone numbers in other countries, go to te.com/support-center

te.com

TE Connectivity, TE Connectivity (logo) are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.

05/2021