

GPS / Wi-Fi Dual Band Dual Feed Ceramic SMD Antenna

Part Number: **L000951-01**
L000951-80

FEATURES & BENEFITS

- Supporting GPS & WiFi Dual band, covering 1.57542 GHz, 2.4~2.5 GHz & 5.15~5.85 GHz with dual feed SMD antenna.
- SMD Passive Chip Antenna, Ultra-low Profile, Compact Size.
- The following data is based on 80 x 40 ground size
- With matching circuits required

RF SPECIFICATIONS

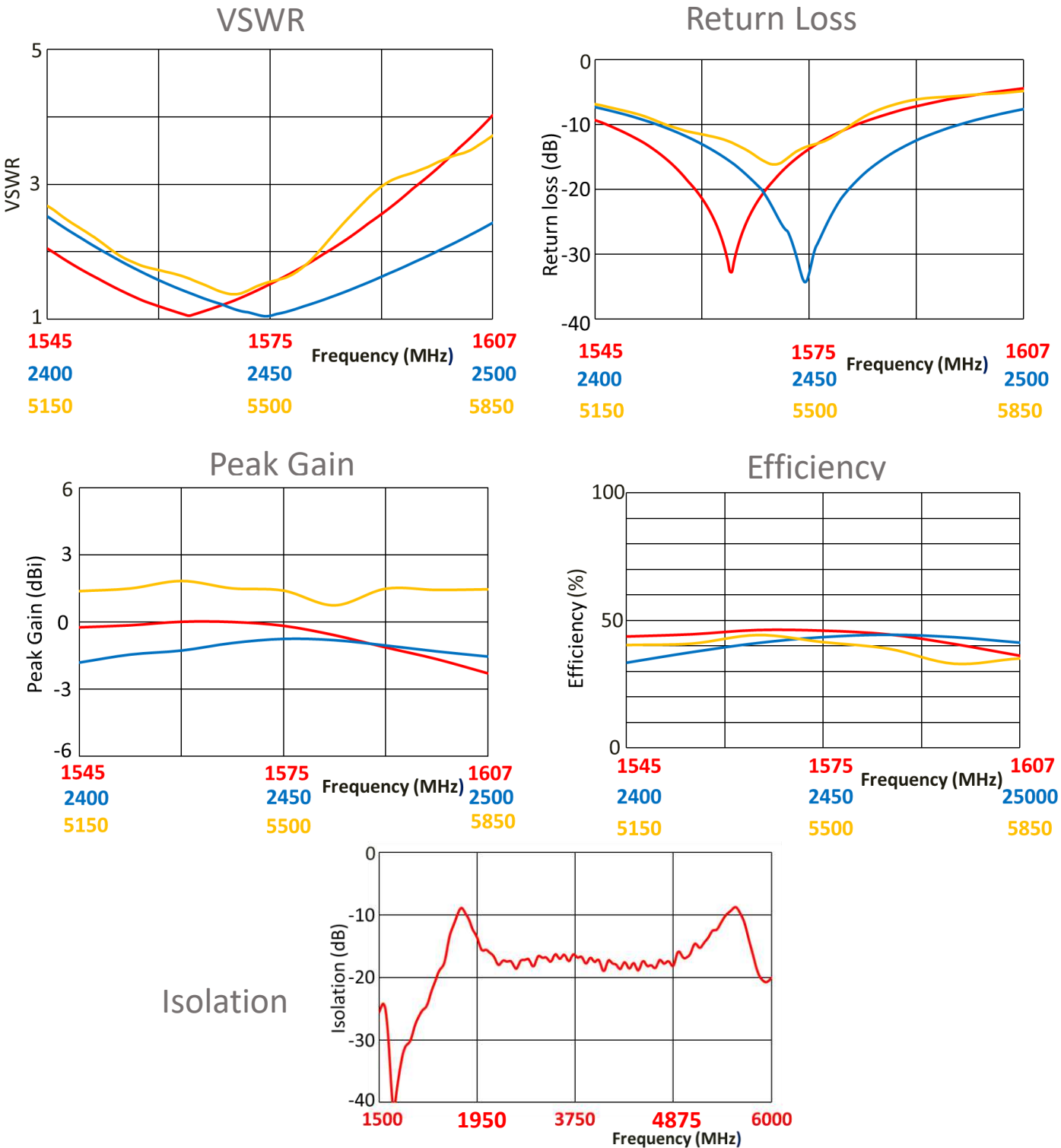
Frequency Range (MHz)	1575.42	2400-2484	5150-5850
Bandwidth (MHz)	2 MHz	84 MHz	700 MHz
VSWR (center frequency)	< 2.0:1	< 2.0:1	< 2.0:1
Peak Gain (Typ.)	-0.2 dBi	-1.2 dBi	1.4 dBi
Average Gain (Typ.)	-3.6 dB	-4.0 dB	-4.2 dB
Efficiency (Typ.)	44 %	40 %	38 %
Isolation	< -20 dB	< -8dB	< -8dB
Feed Point Impedance	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 \pm 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 L000951-01 : Ground size : 80 x 40 x 1 mm.)

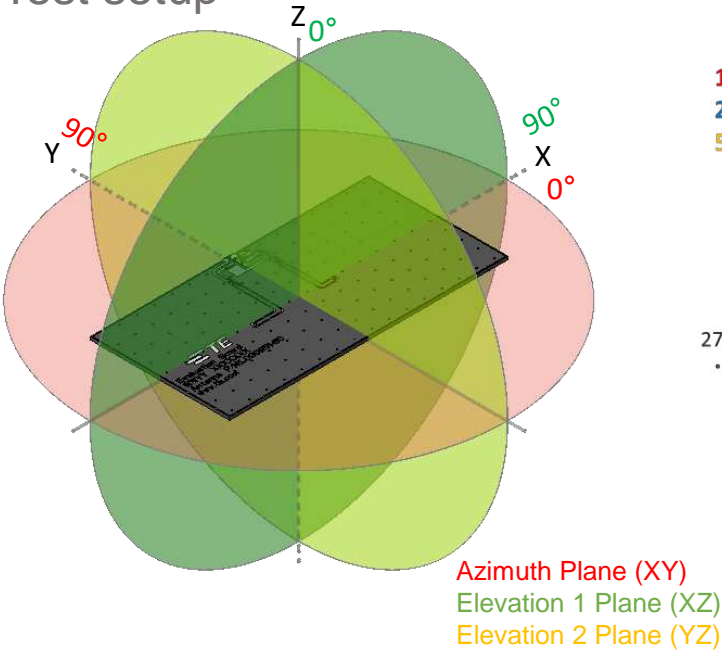


Data measured in free space and on reference ground plane of 80x40x1 mm ground plane condition, application data might vary.

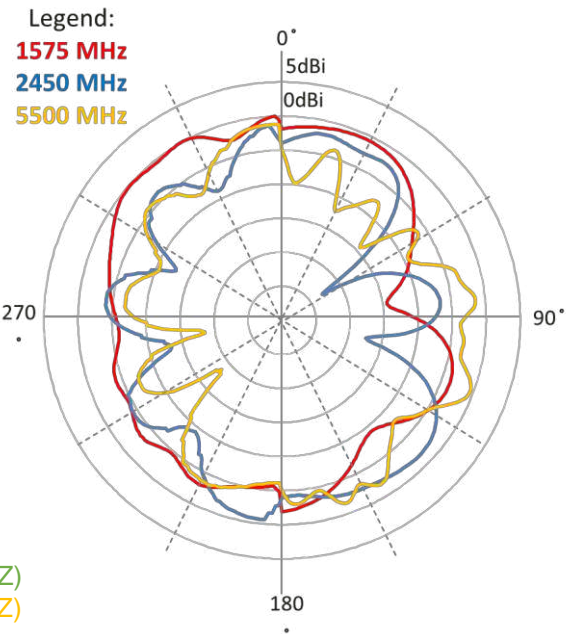
RADIATION PATTERN

(shown as L000951-01 : Ground size : 80 x 40 x 1 mm.)

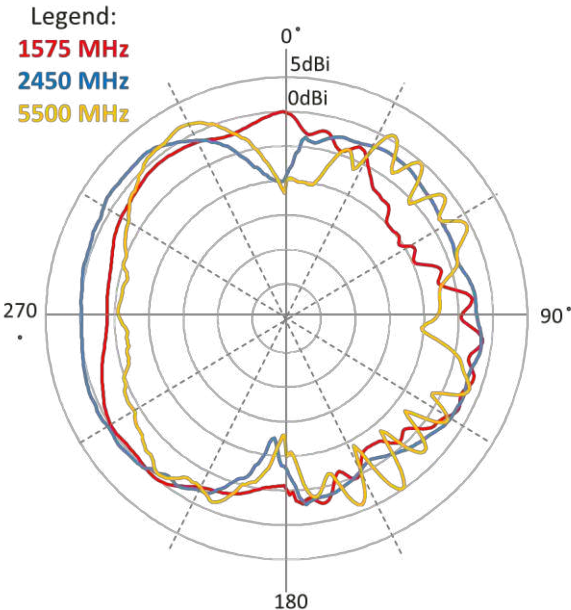
Test setup



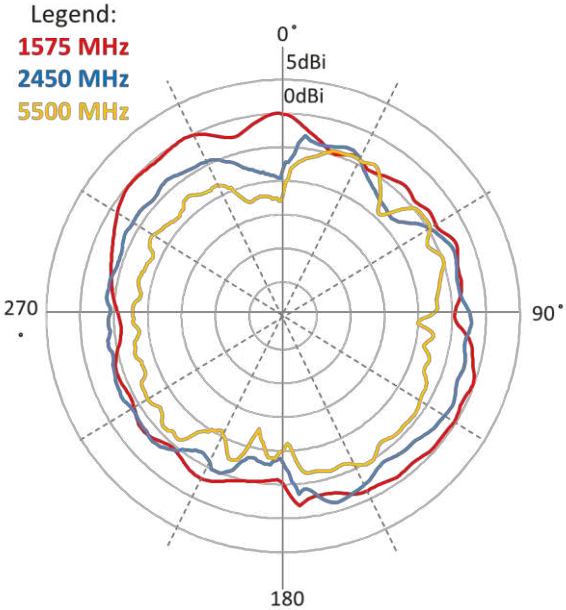
Azimuth (XY)



Elevation 1 (XZ)

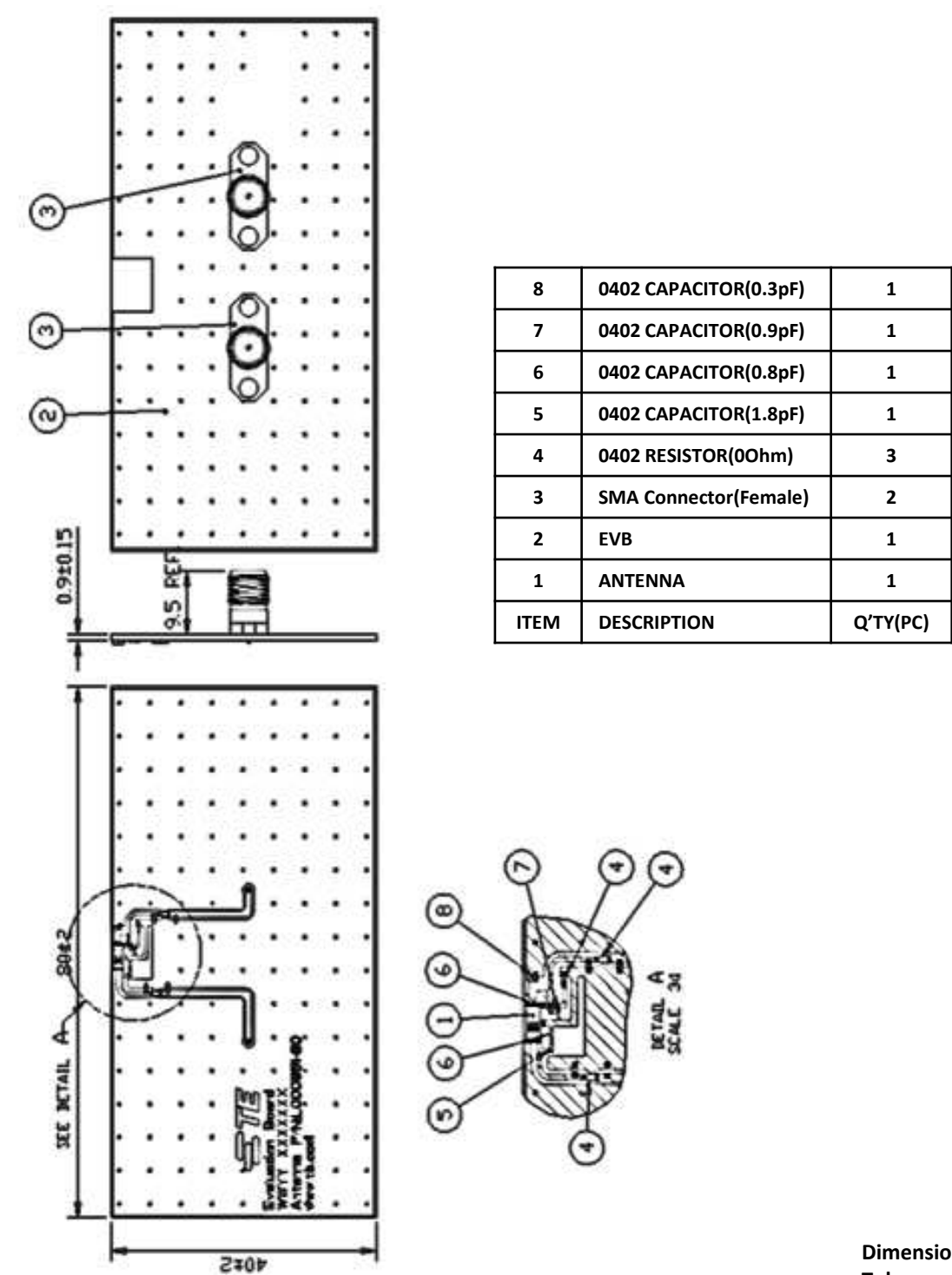


Elevation 2 (YZ)



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

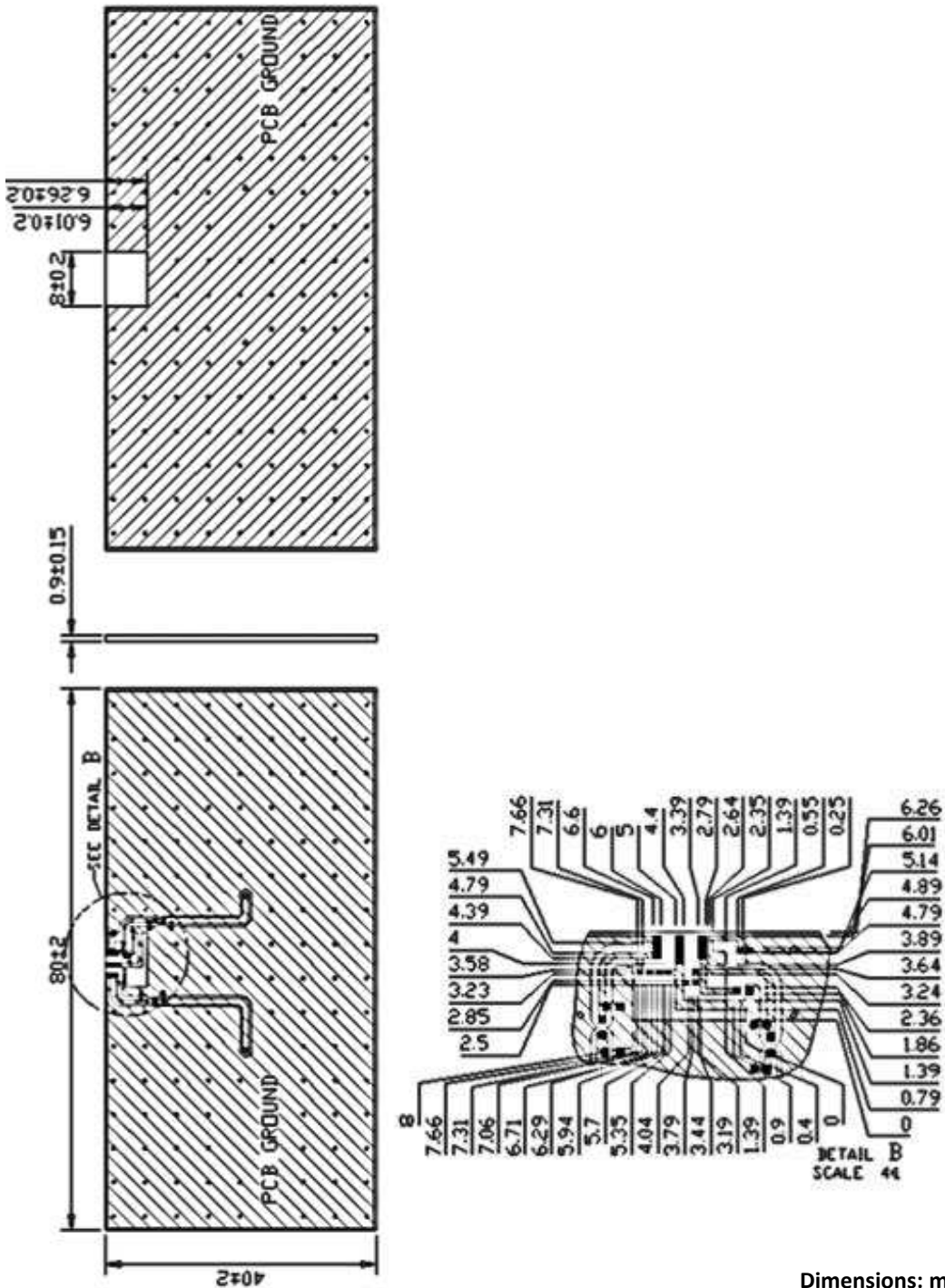
MOUNTING GUIDE AND MATCHING CIRCUIT



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

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

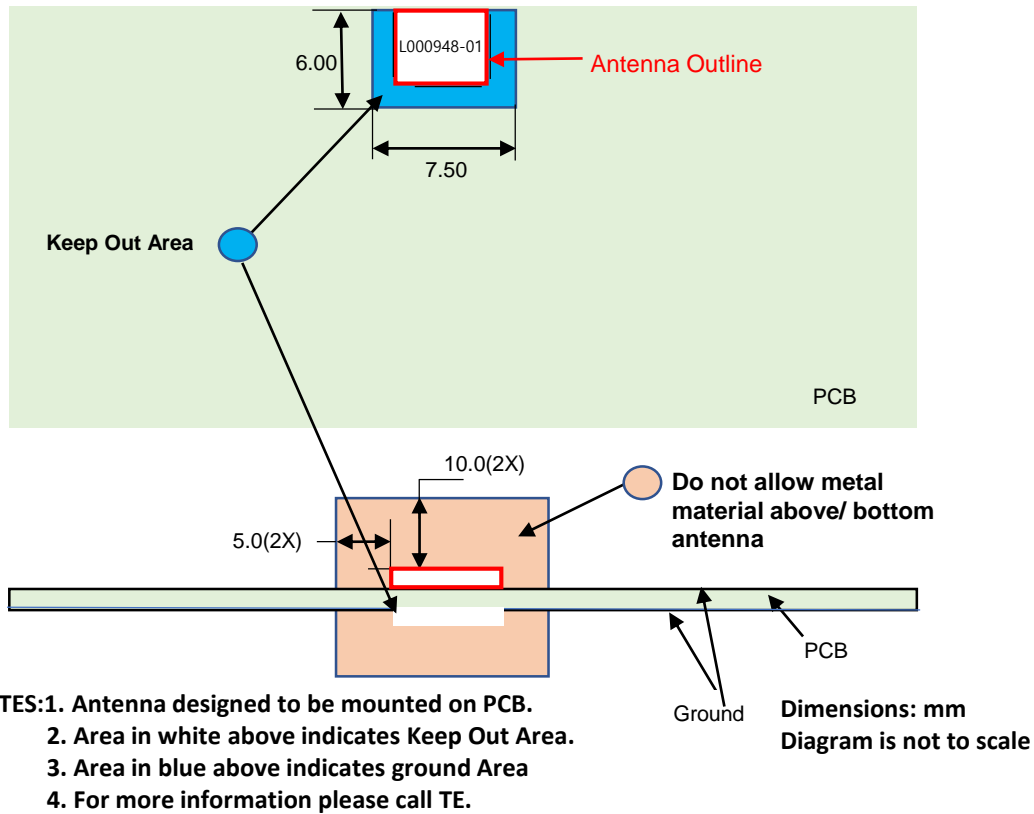
MOUNTING GUIDE AND MATCHING CIRCUIT



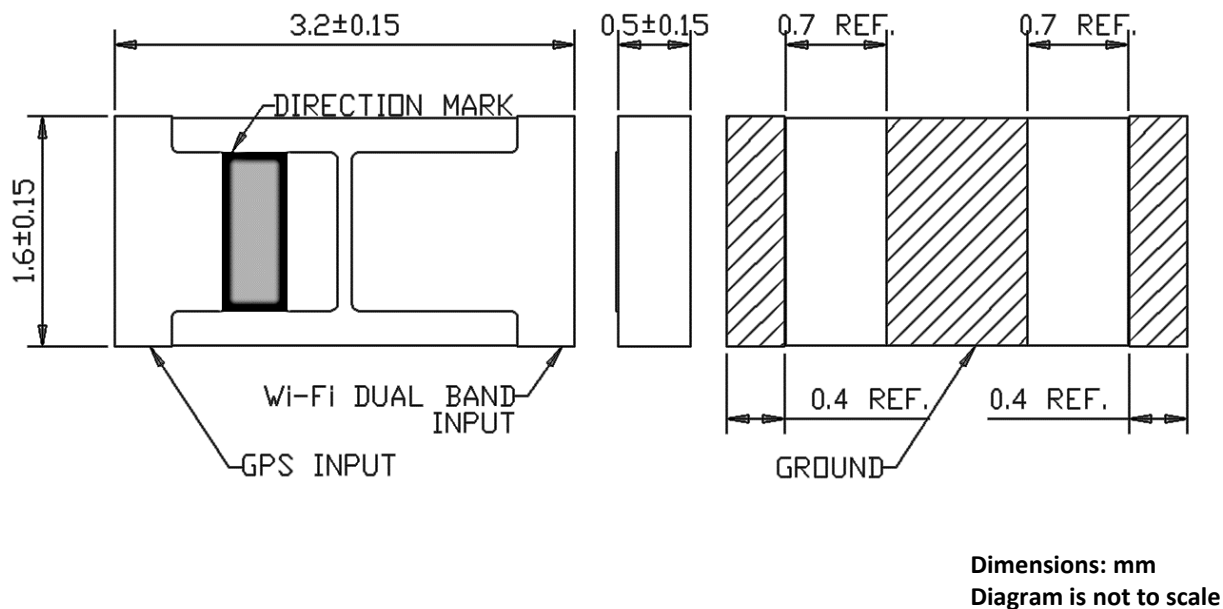
- NOTES: 1. Antenna must be mounted on the edge of PCB.
2. For more information please call TE.
3. Reference PCB Dimension(mm) - 80.0 x 40.0 x 1.0

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

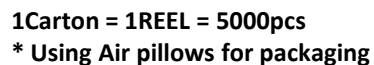
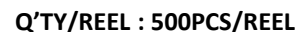
KEEP OUT AREA



DIMENSIONS and PIN Definitions



L000951-01 (REEL)

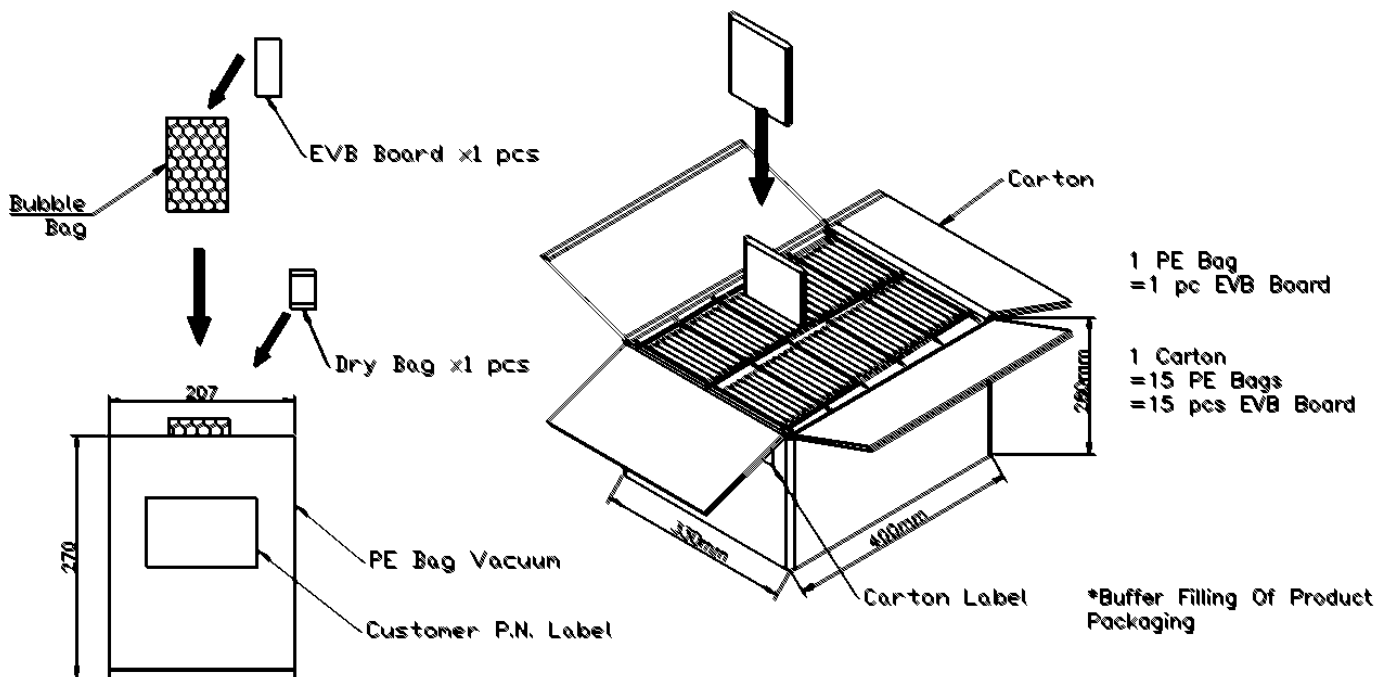


GPS / Wi-Fi Dual Band Dual Feed Ceramic SMD Antenna

Standard Antenna Solutions

PACKAGING

L000951-80 (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