



WiFi6 Dual Band Ceramic SMD Antenna 3.2x1.6x0.5 mm

Part Number: L000947-01

L000947-80

FEATURES & BENEFITS

- DUAL BAND WLAN/Bluetooth/IEEE802.11 a/b/g/n/ac Application.
- SMD Passive Ceramic Chip Antenna with evaluation board 80 x 40 mm²
- Ultra low profile antenna suitable for IoT applications
- With matching circuits that designed on the evaluation board.

RF SPECIFICATIONS

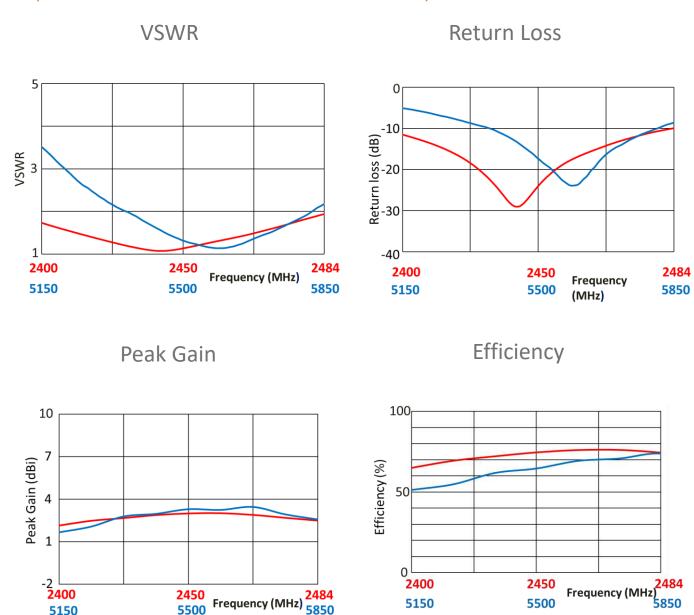
Frequency Range (MHz)	2400-2484	5150-5850
Bandwidth (MHz)	84 MHz	700 MHz
VSWR (center frequency)	< 2.0:1	< 3.6:1
Peak Gain (Typ.)	2.7 dBi	2.8 dBi
Average Gain (Typ.)	-1.5 dB	-2.1 dB
Efficiency (Typ.)	71 %	51 %
Feed Point Impedance	50 ohms	
Polarization	Linear Polarization	

MECHANICAL SPECIFICATIONS

Size (LxWxH)	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

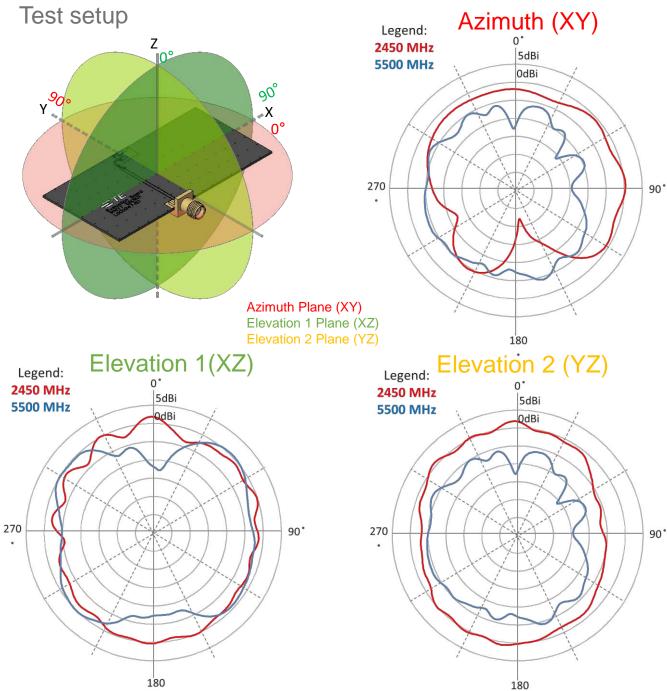
(shown as L000947-01 : Ground size : 80 x 40 x 1 mm.)



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

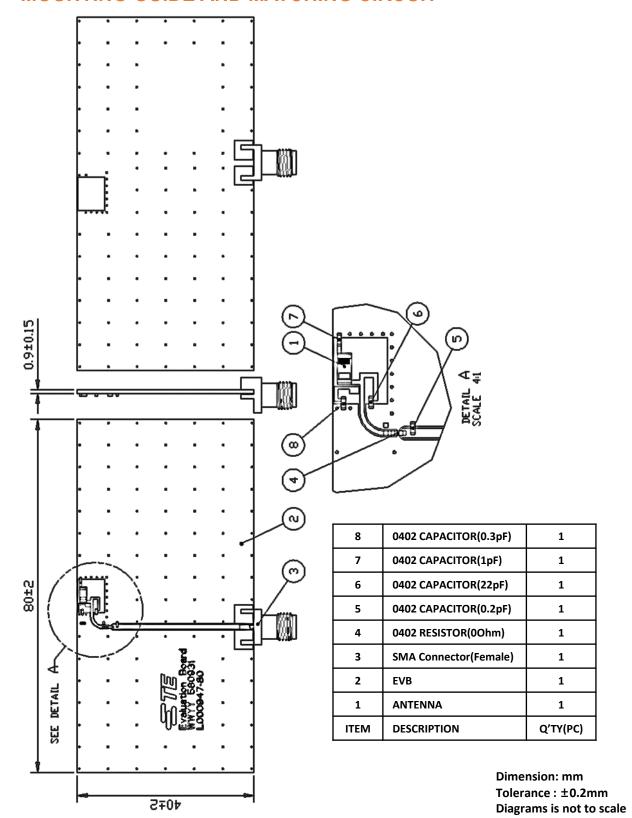
RADIATION PATTERN

(shown as L000947-01 : Ground size : 80 x 40 x 1 mm.)

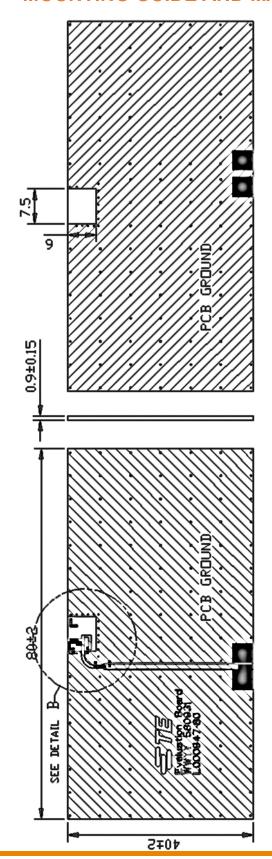


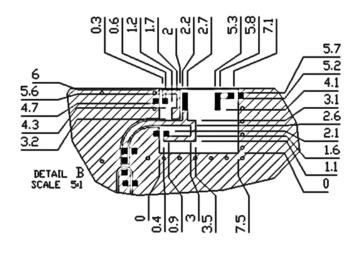
Data measured in free space and on reference ground plane of 80x40x1 mm ground plane condition, application data might vary.

MOUNTING GUIDE AND MATCHING CIRCUIT



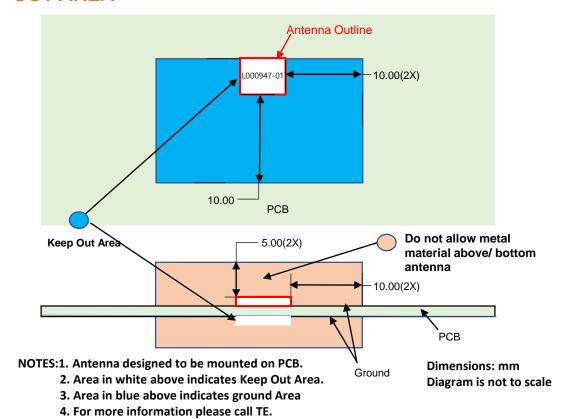
MOUNTING GUIDE AND MATCHING CIRCUIT



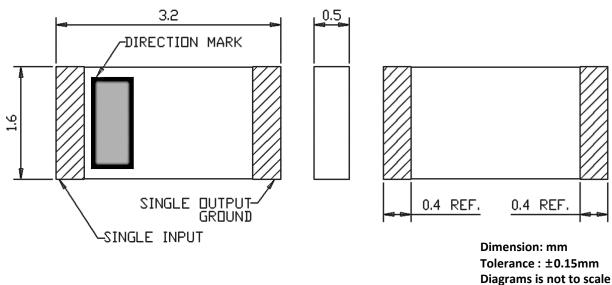


Dimension: mm
Tolerance: ±0.2mm
Diagrams is not to scale

KEEP OUT AREA

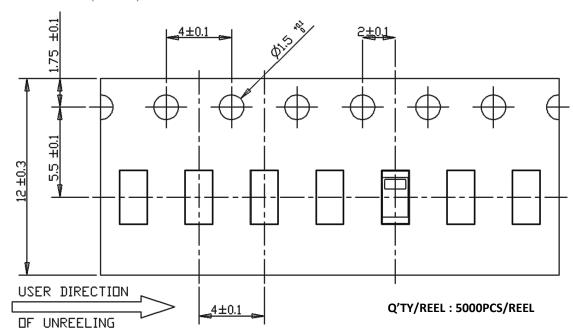


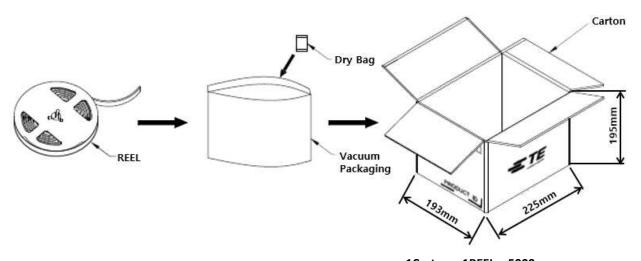
DIMENSIONS



PACKAGING

L000947-01 (REEL)



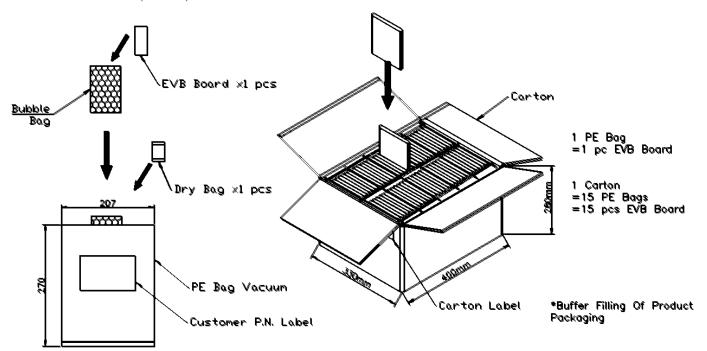


1Carton = 1REEL = 5000pcs
* Using Air pillows for packaging



PACKAGING

L000947-80 (BULK)



TE TECHNICAL SUPPORT CENTER

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