



# PCB ANTENNA, TAB MOUNT MIMO, 1557-7125MHz (51.0 x 14.2 x 1.61mm)

**Part Numbers: L000646-01** 

L000646-80

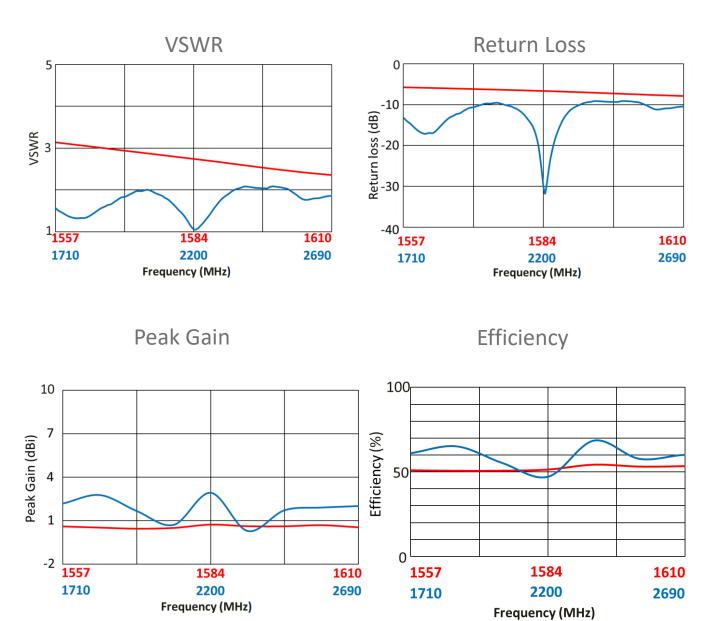
# **FEATURES & BENEFITS**

- Smaller antenna clearance area compared to PCB / Chip antennas
- Omnidirectional coverage
- Wide Band coverage for 3G, 4G, 5G MIMO and GNSS
- Evaluation board available for testing (L000646-80)
- Bandwidth and performance dependent on ground plane size / design (suggested minimum ground plane length from antenna feed is 100mm)
- RoHS 2.0 Compliant, Road Vehicle Compliant, REACH Compliant

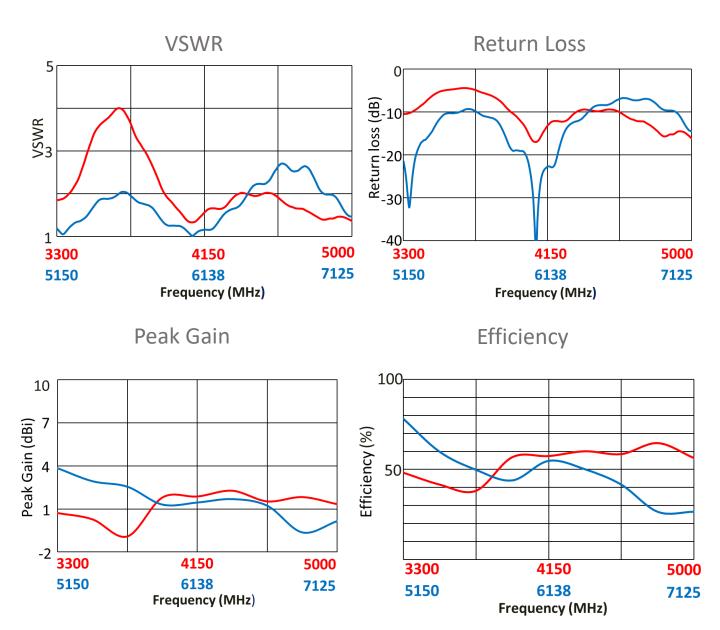
# **SPECIFICATIONS**

Frequency Range (MHz)	1557-1610	1710-2690	3300-5000	5150-7125
VSWR	< 3.5:1	< 2.5:1	< 4:1	< 3:1
Average Efficiency	52.00%	57.00%	53.00%	48%
Peak Gain	0.7dBi	2.9dBi	1.8dBi	1.4dBi
Average Gain	-2.8dBi	-2.5dBi	-2.8dBi	-3.5dBi
Power Handling	5 Watt cw			
Feed Point Impedance	50 ohms unbalanced			
Polarization	Linear			
Size	51.0 mm x 14.2 mm x 1.61 mm			
Weight	< 1.5 g			
Mounting	Surface mount			
Operating Temperature	-40 to +85°C			
Storage Temperature	-40 to +85°C			
Packaging Specification	Bag & Box			
Hazardous Materials	A certificate of conformance is available from the product page on TE website.			

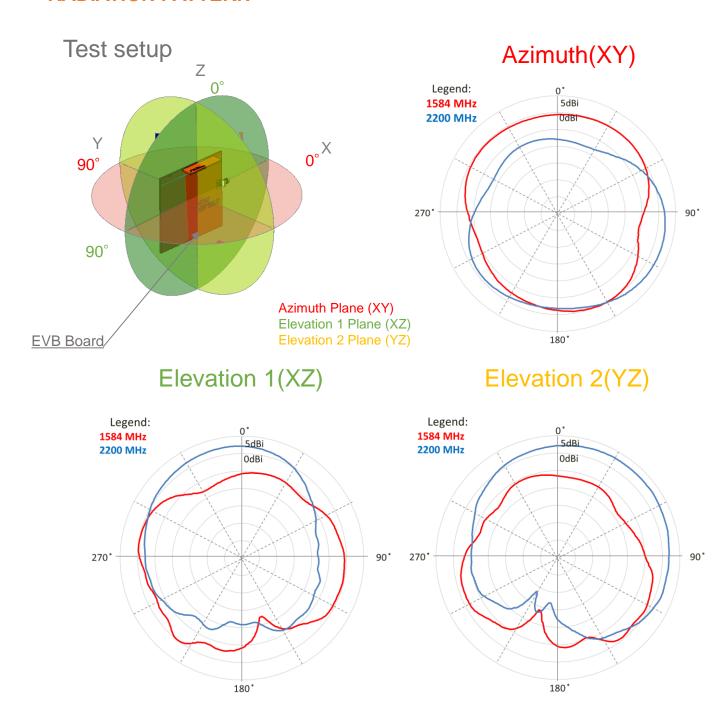
# **RF DATA**



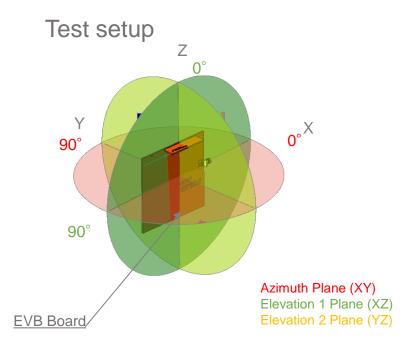
## **RF DATA**

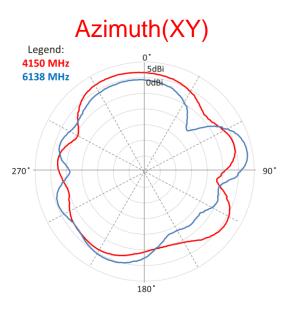


# RADIATION PATTERN



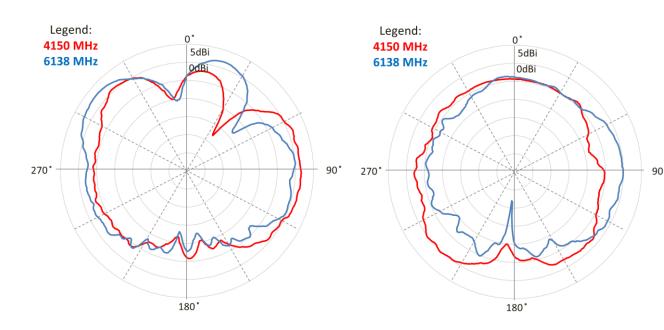
# **RADIATION PATTERN**



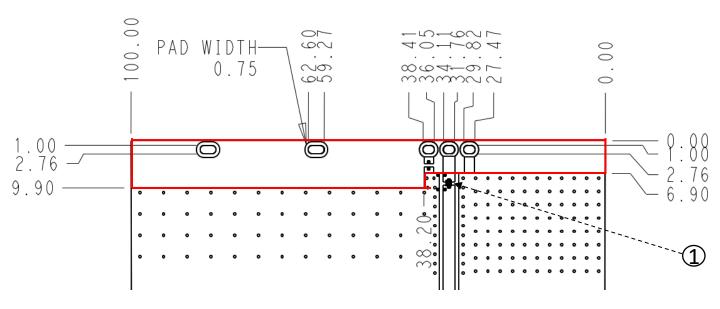


# Elevation 1(XZ)

Elevation 2(YZ)



# **MOUNTING GUIDE**

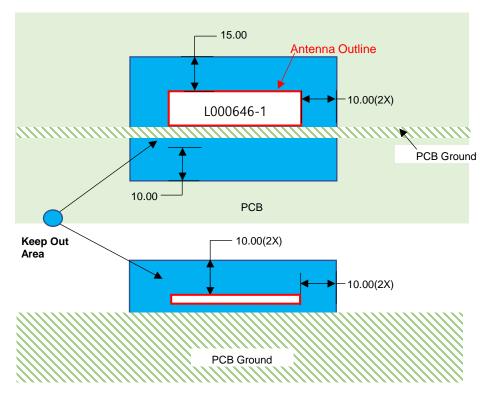


NOTES: 1. Antenna must be mounted on the edge of PCB.

- 2. NC = Non connection (mechanical mounting pads).
- 3. No copper allowed in designated area on all PCB layers –
- 4. For more information please call TE.
- 5. Measured with below matching circuit condition.
  - $\bigcirc$  0 ohm
- 6. Reference PCB Dimension(mm) 100 x 100 x 1.6 (dielectric 4.3)

Dimensions: mm Diagram is not to scale

# **KEEP OUT AREA**

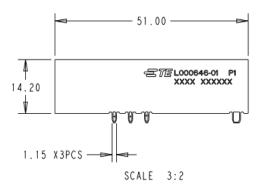


NOTES:1. Antenna designed to be mounted on PCB.
2. Area in blue above indicates Keep Out Area.

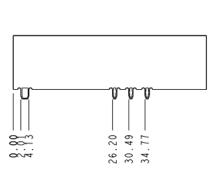
- 3. For more information please call TE.

Dimensions: mm Diagram is not to scale

# **DIMENSIONS**



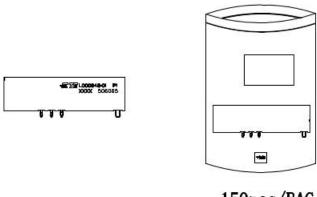




Dimensions: mm Diagram is not to scale

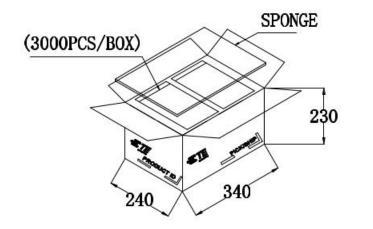
# **PACKAGING**

L000646-01







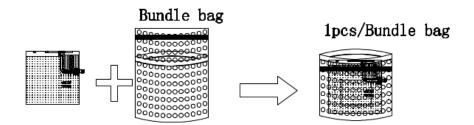




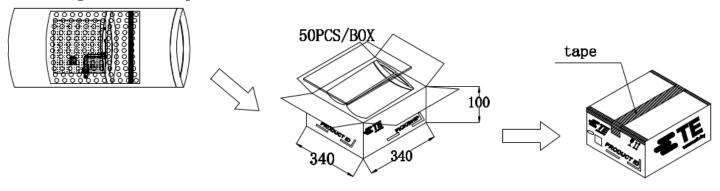


# **PACKAGING**

L000646-80



# Each bag contains 10pcs





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

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