



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

Part Numbers: **L000646-01**
L000646-80

FEATURES & BENEFITS

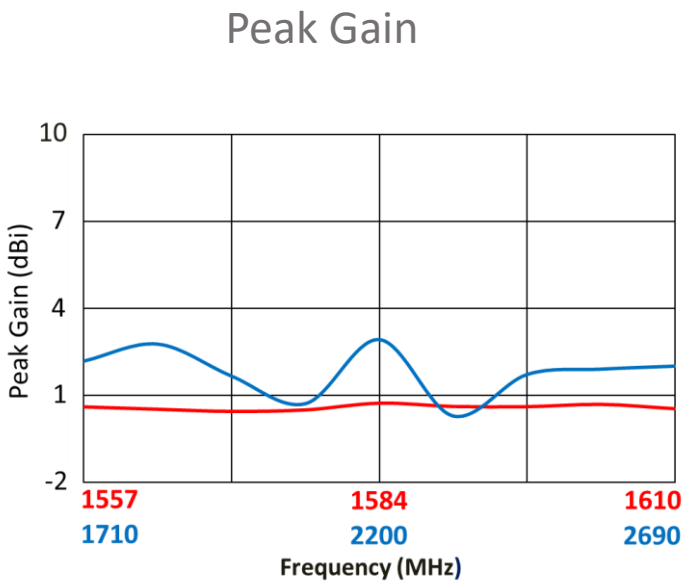
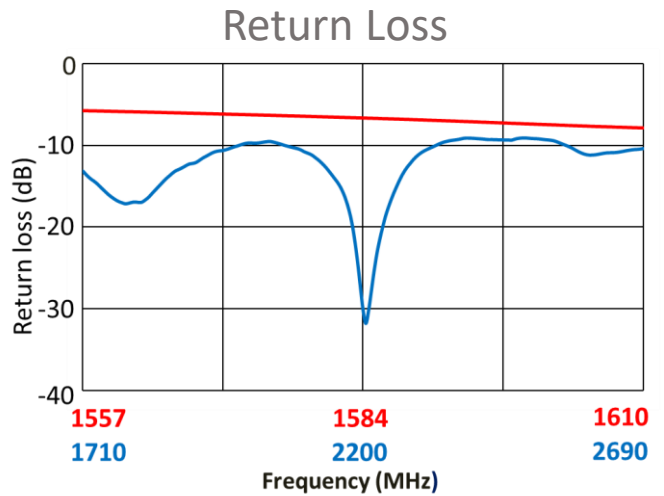
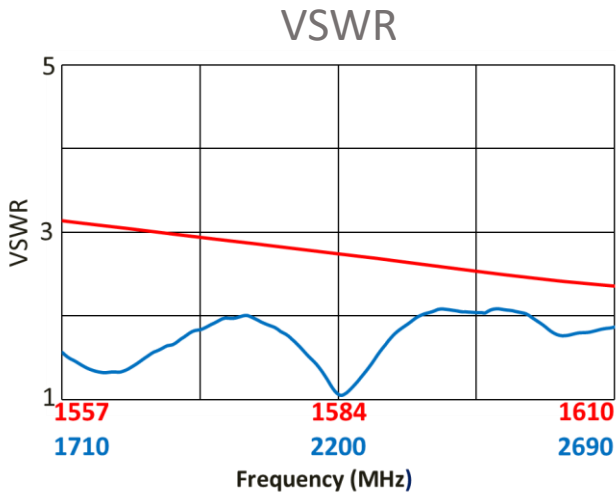
- Smaller antenna clearance area compared to PCB / Chip antennas
- Omnidirectional coverage
- Wide Band coverage for 3G, 4G, 5G MIMO and GNSS
- Evaluation board available for testing (L000646-80)
- Bandwidth and performance dependent on ground plane size / design (suggested minimum ground plane length 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.			

Data measured in free space and on reference ground plane of 100 mm ground length and 100 mm width, application data might vary.

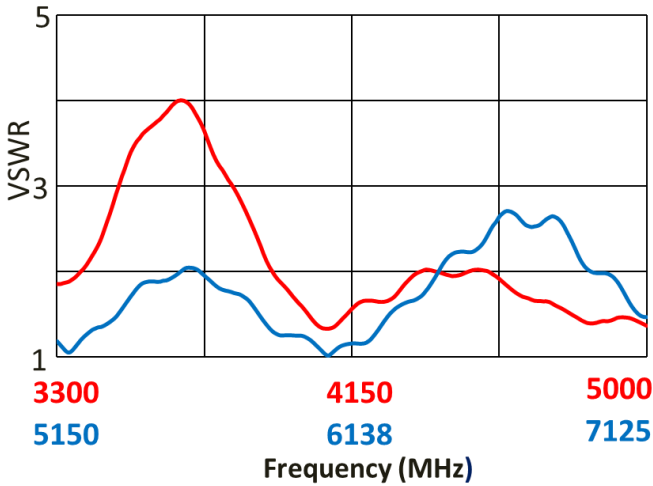
RF DATA



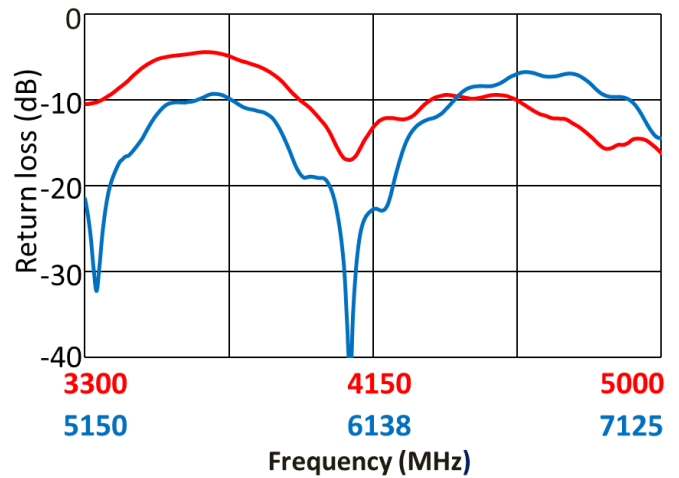
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RF DATA

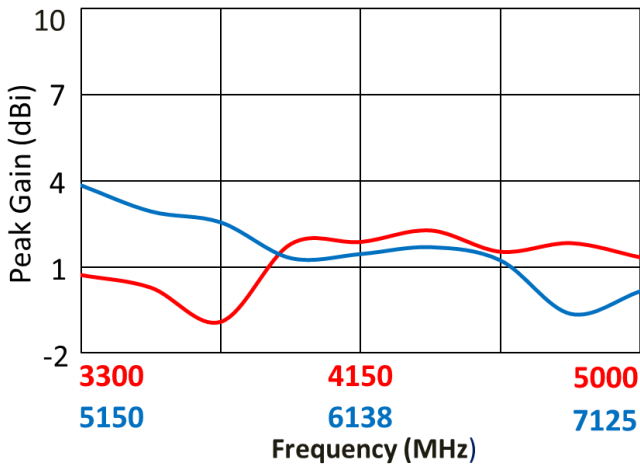
VSWR



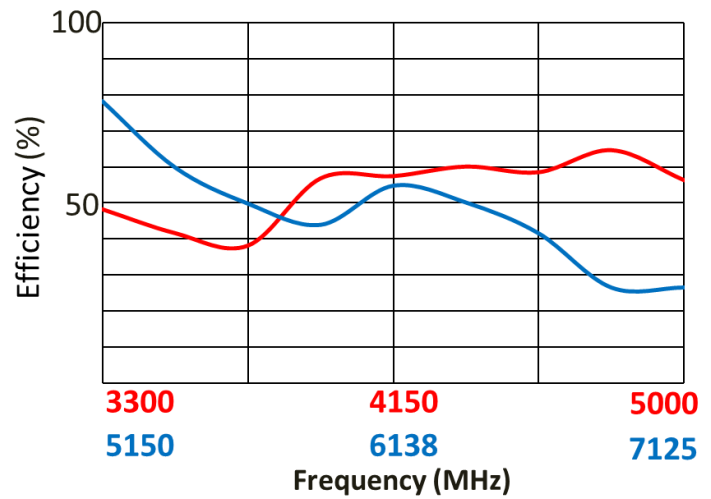
Return Loss



Peak Gain



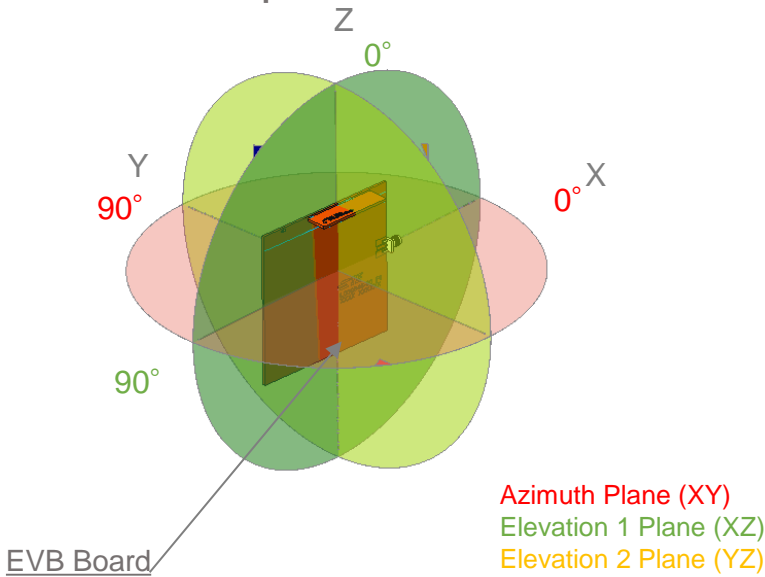
Efficiency



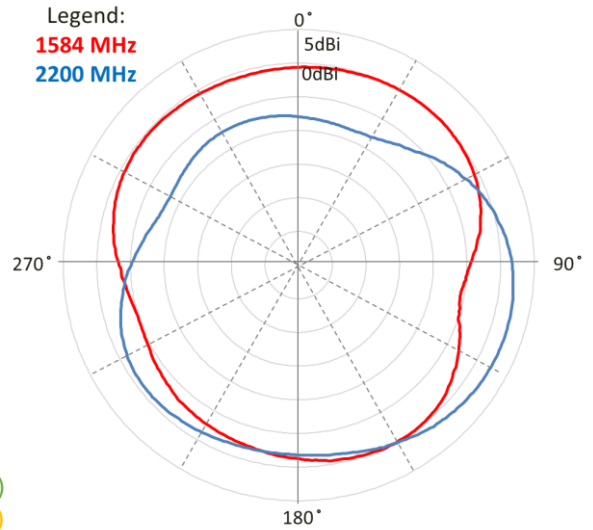
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RADIATION PATTERN

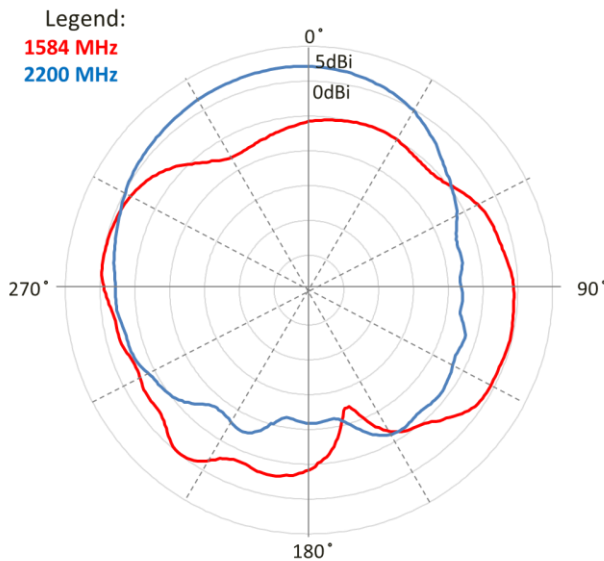
Test setup



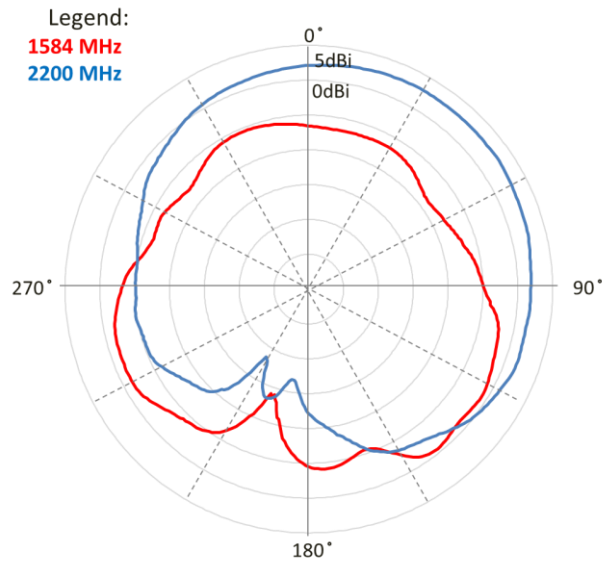
Azimuth(XY)



Elevation 1(XZ)



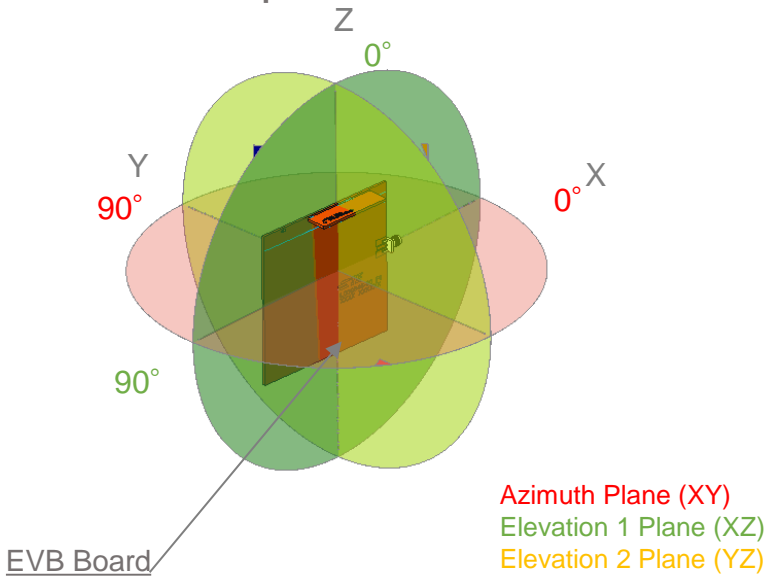
Elevation 2(YZ)



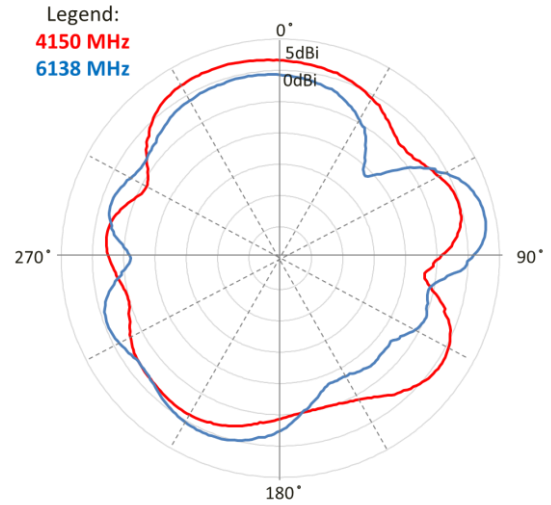
Data measured in free space and on reference ground plane of 100mm ground length and 100mm width, application data might vary.

RADIATION PATTERN

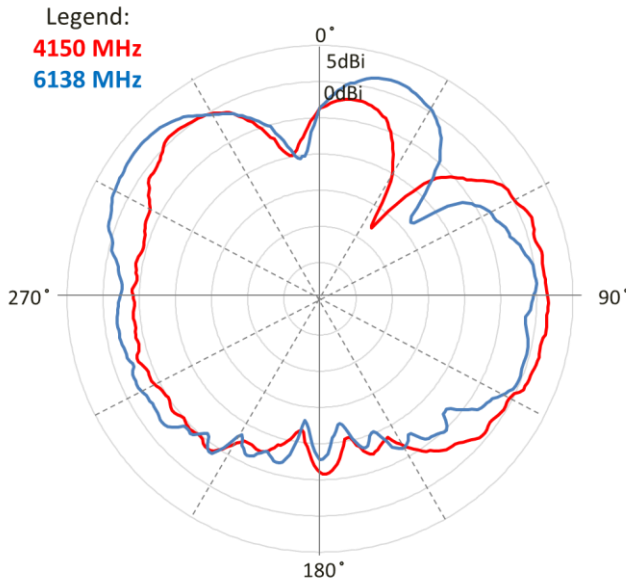
Test setup



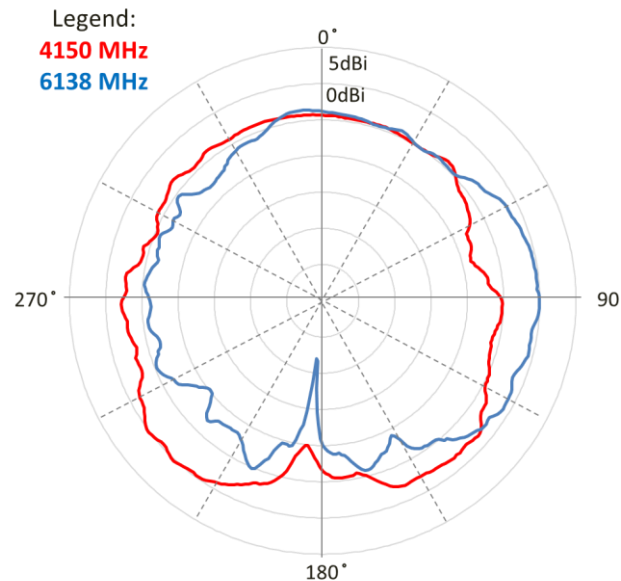
Azimuth(XY)



Elevation 1(XZ)

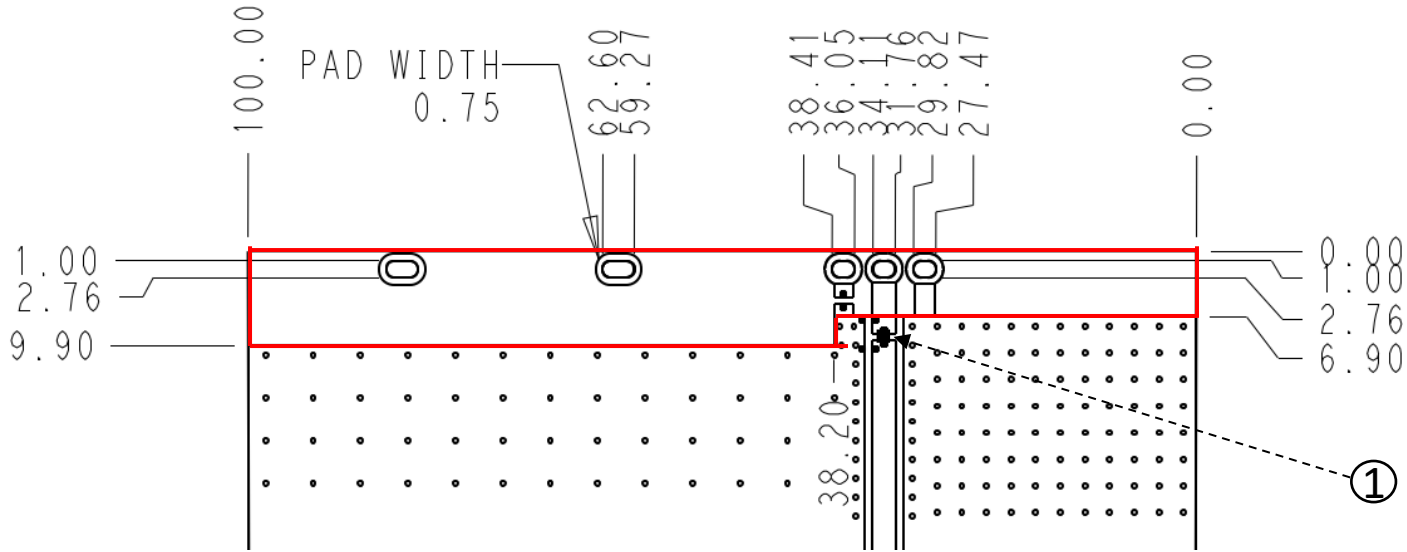


Elevation 2(YZ)



Data measured in free space and on reference ground plane of 100mm ground length and 100mm width, application data might vary.

MOUNTING GUIDE



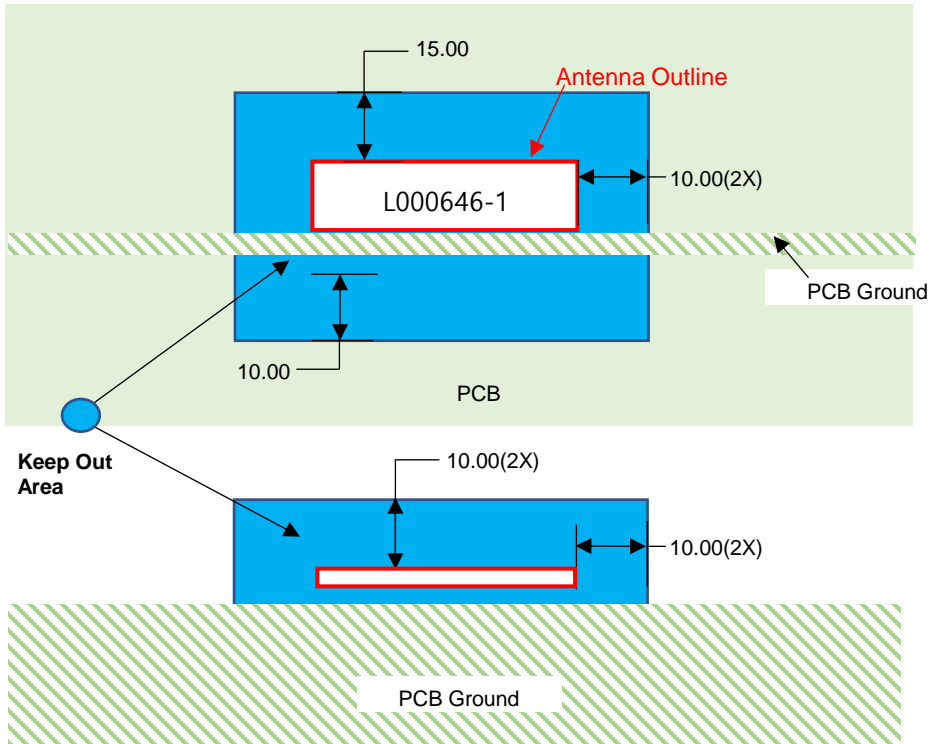
- NOTES:**
- 1. Antenna must be mounted on the edge of PCB.
 - 2. NC = Non connection (mechanical mounting pads).
 - 3. No copper allowed in designated area on all PCB layers –
 - 4. For more information please call TE.
 - 5. Measured with below matching circuit condition.
 - ① 0 ohm
 - 6. Reference PCB Dimension(mm) - 100 x 100 x 1.6 (dielectric 4.3)

Dimensions: mm
Diagram is not to scale

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

Standard Antenna Solutions

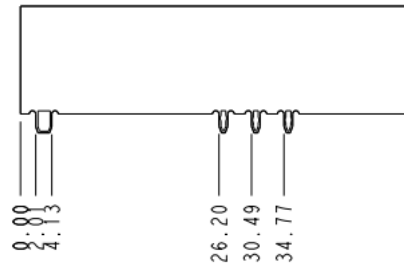
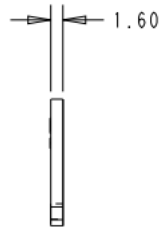
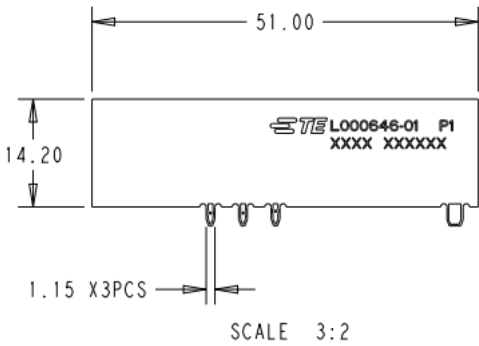
KEEP OUT AREA



- 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



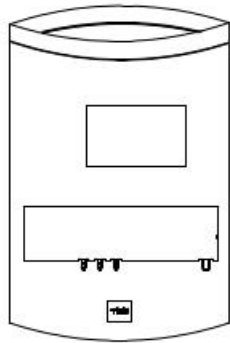
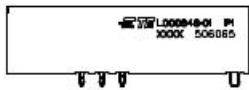
Dimensions: mm
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PCB ANTENNA, TAB MOUNT MIMO, 1557-7125MHz (51.0 x 14.2 x 1.61mm)

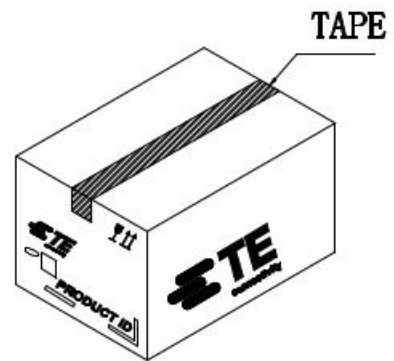
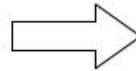
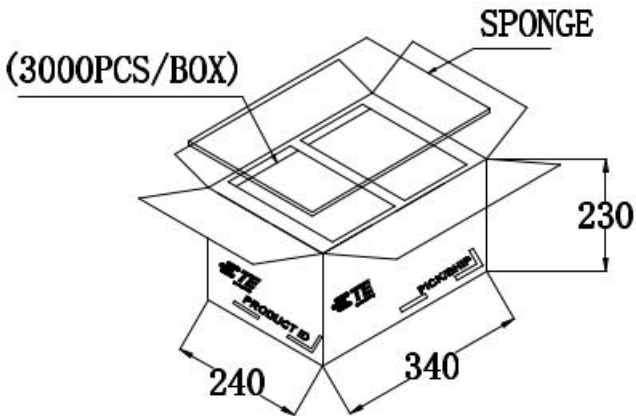
Standard Antenna Solutions

PACKAGING

L000646-01

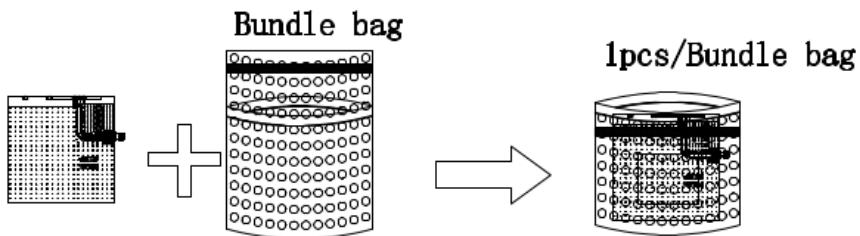


150pcs/BAG

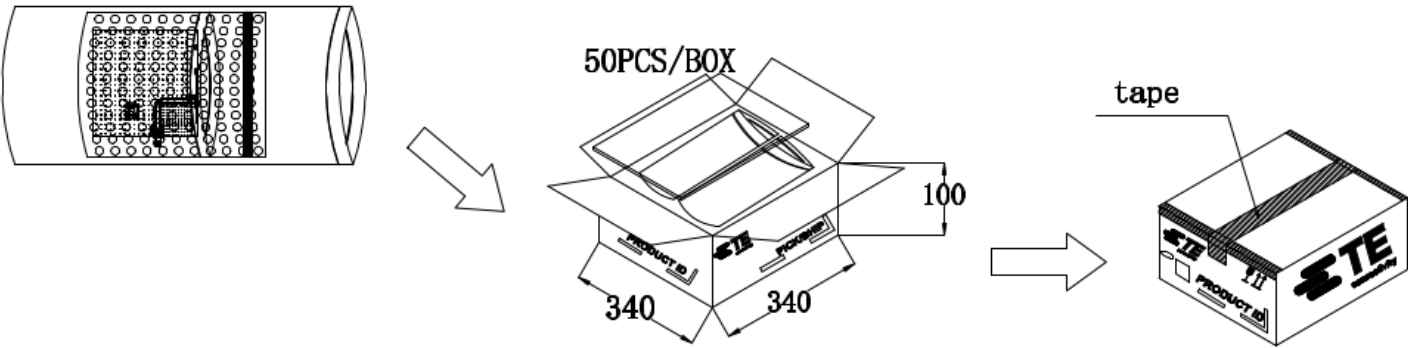


PACKAGING

L000646-80



Each bag contains 10pcs



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

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
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