

PCB ANTENNA, TAB MOUNT, 617-7125MHz (74 x 14.2 x 1.61mm)

Part Numbers: L000645-01 L000645-80

FEATURES & BENEFITS

- Smaller antenna clearance area compared to PCB / Chip antennas
- Omnidirectional coverage, wide band coverage for 3G, 4G and 5G
- Evaluation board available for testing (L000645-80)
- 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

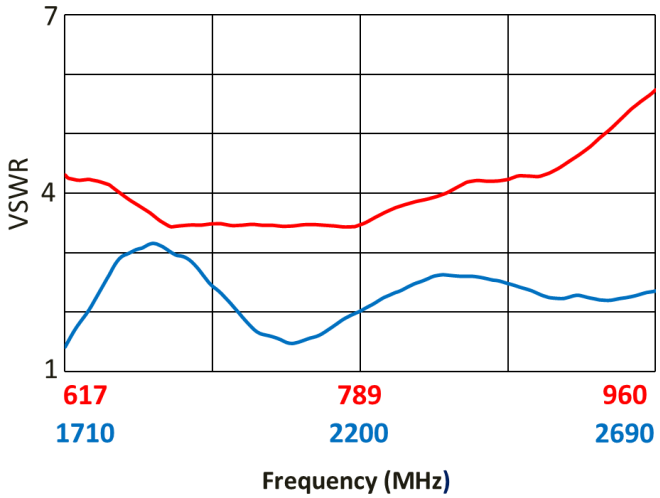
SPECIFICATIONS

Frequency Range (MHz)	617-960	1710-2690	3300-5000	5150-7125
VSWR	< 6:1	< 3.5:1	< 4:1	< 2.5:1
Average Efficiency	42.00%	50.00%	49.00%	46%
Peak Gain	0.7dBi	0.3dBi	1.7dBi	3.6dBi
Average Gain	-3.8dBi	-3dBi	-3.2dBi	-3.6dBi
Power Handling	5 Watt cw			
Feed Point Impedance	50 ohms unbalanced			
Polarization	Linear			
Size	74.0 mm x 14.2 mm x 1.61 mm			
Weight	< 1.5 g			
Mounting	Tab 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 170 mm ground length and 100 mm width, application data might vary.				

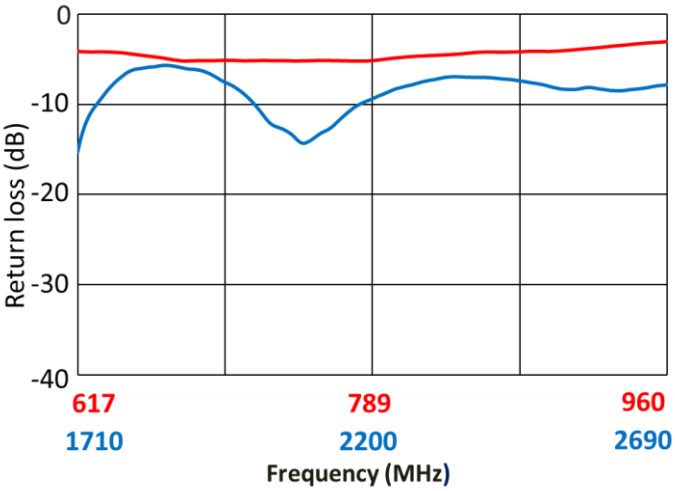
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RF DATA

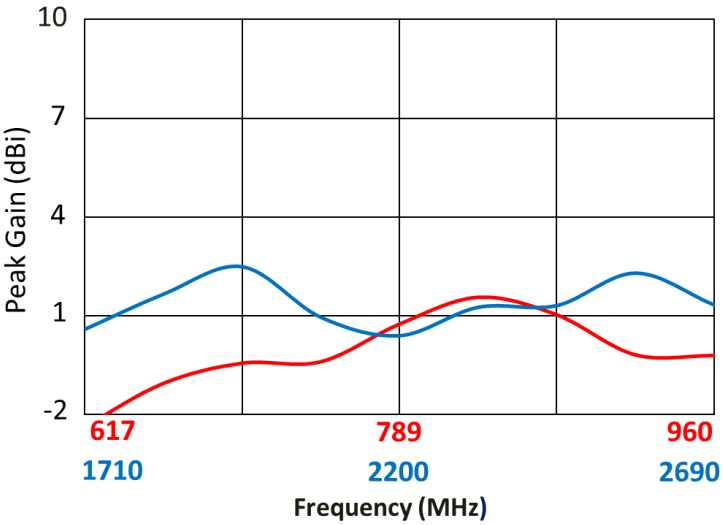
VSWR



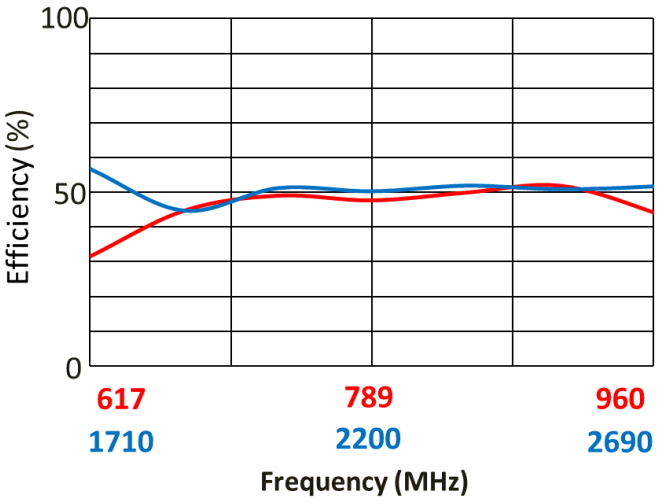
Return Loss



Peak Gain



Efficiency

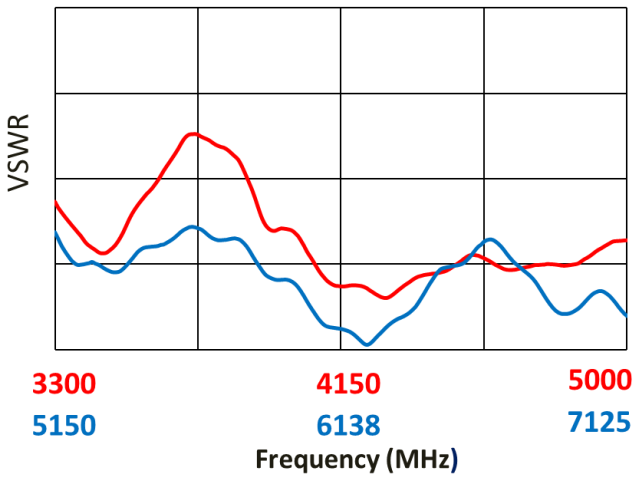


Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

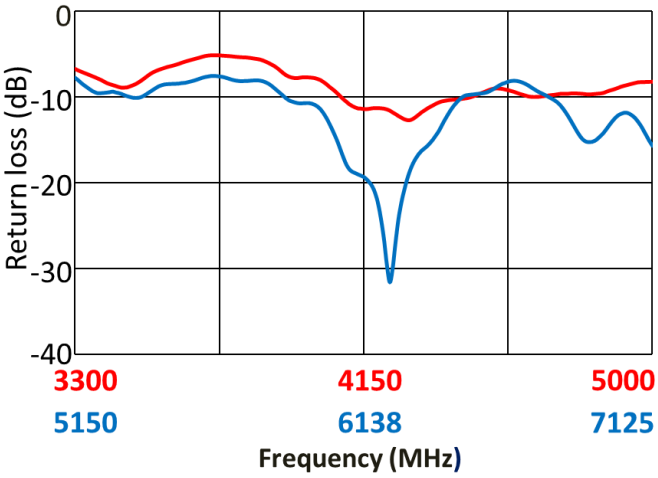
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RF DATA

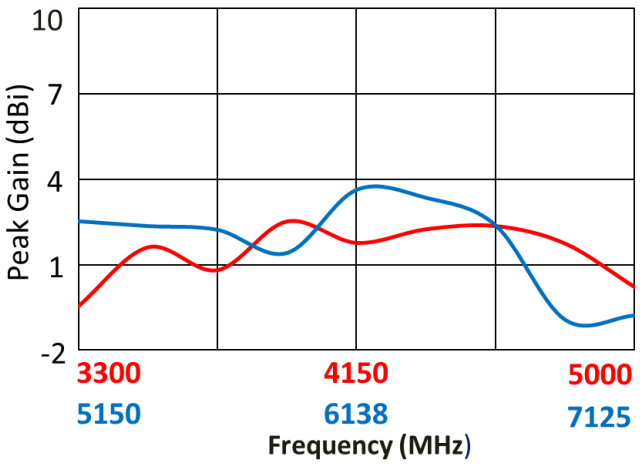
VSWR



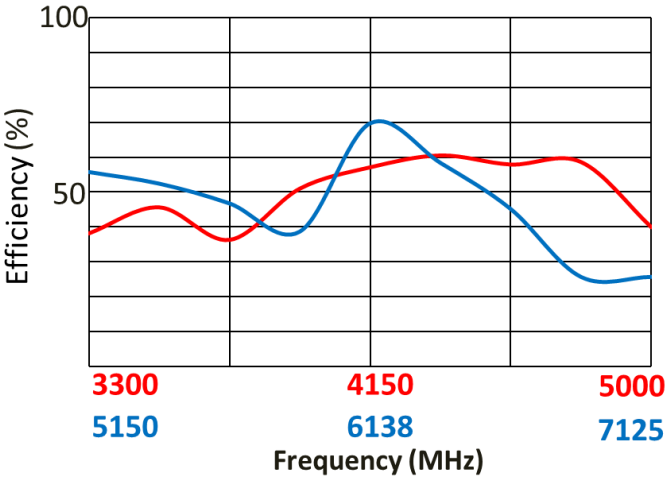
Return Loss



Peak Gain



Efficiency

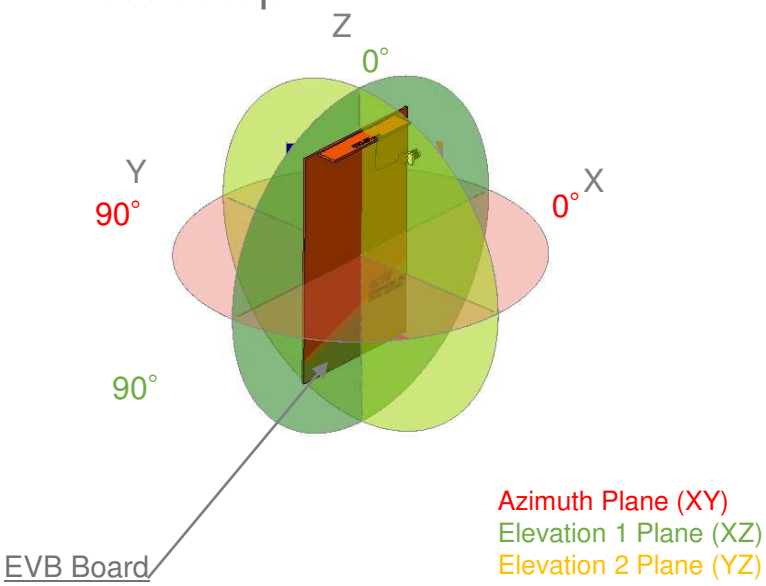


Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

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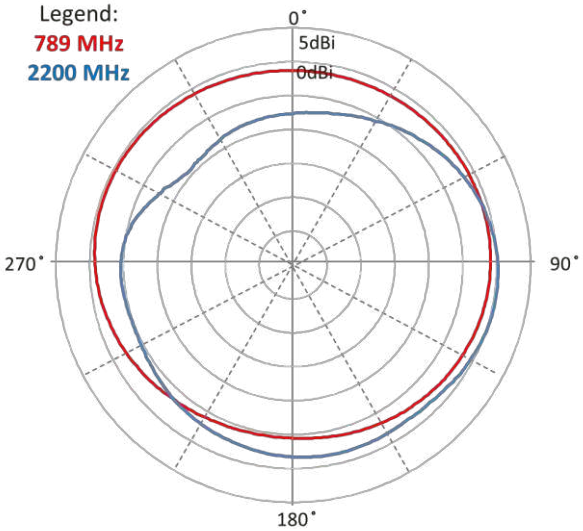
RADIATION PATTERN

Test setup

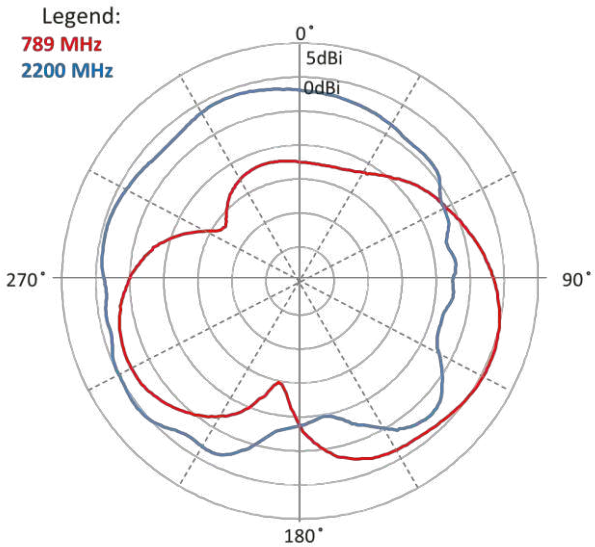


Azimuth Plane (XY)
Elevation 1 Plane (XZ)
Elevation 2 Plane (YZ)

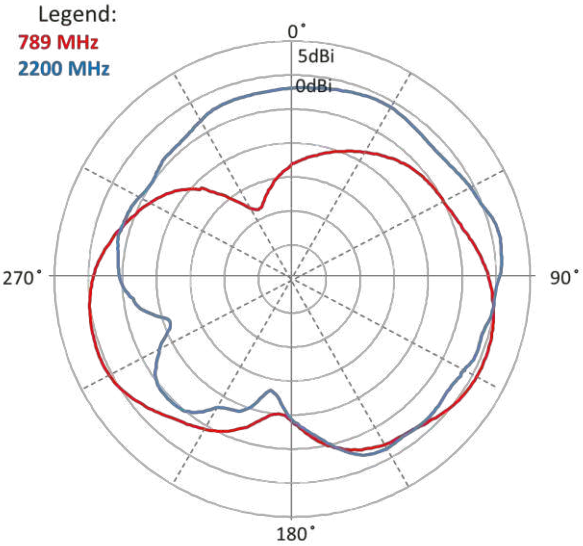
Azimuth(XY)



Elevation 1(XZ)



Elevation 2(YZ)

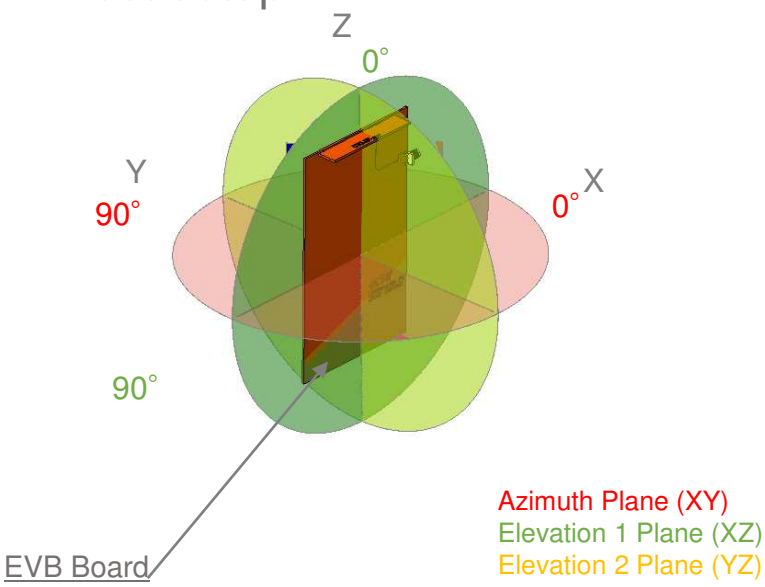


Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

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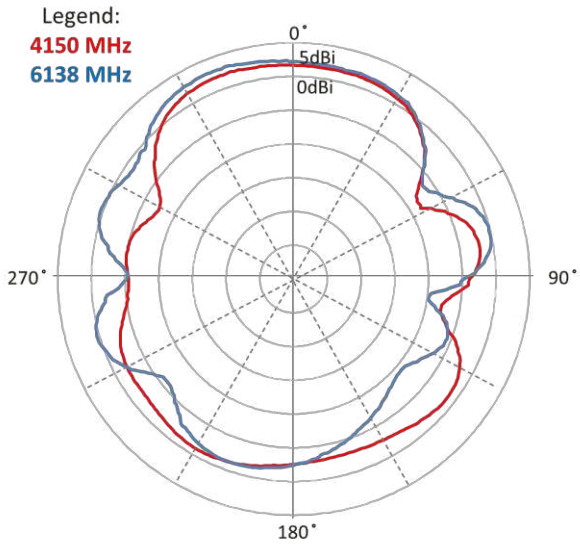
RADIATION PATTERN

Test setup

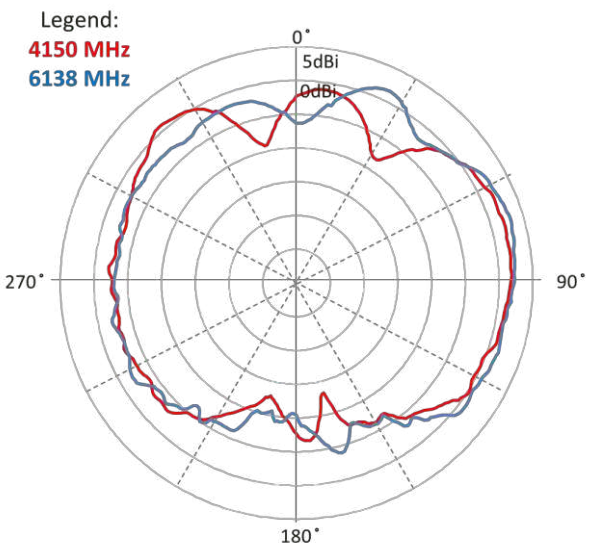


Azimuth Plane (XY)
Elevation 1 Plane (XZ)
Elevation 2 Plane (YZ)

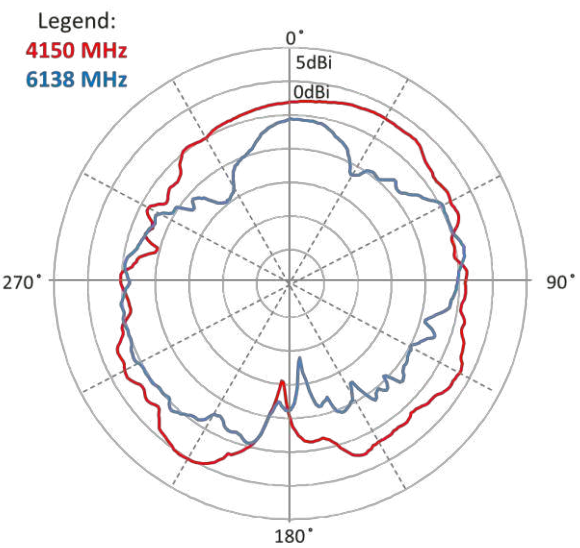
Azimuth(XY)



Elevation 1(XZ)



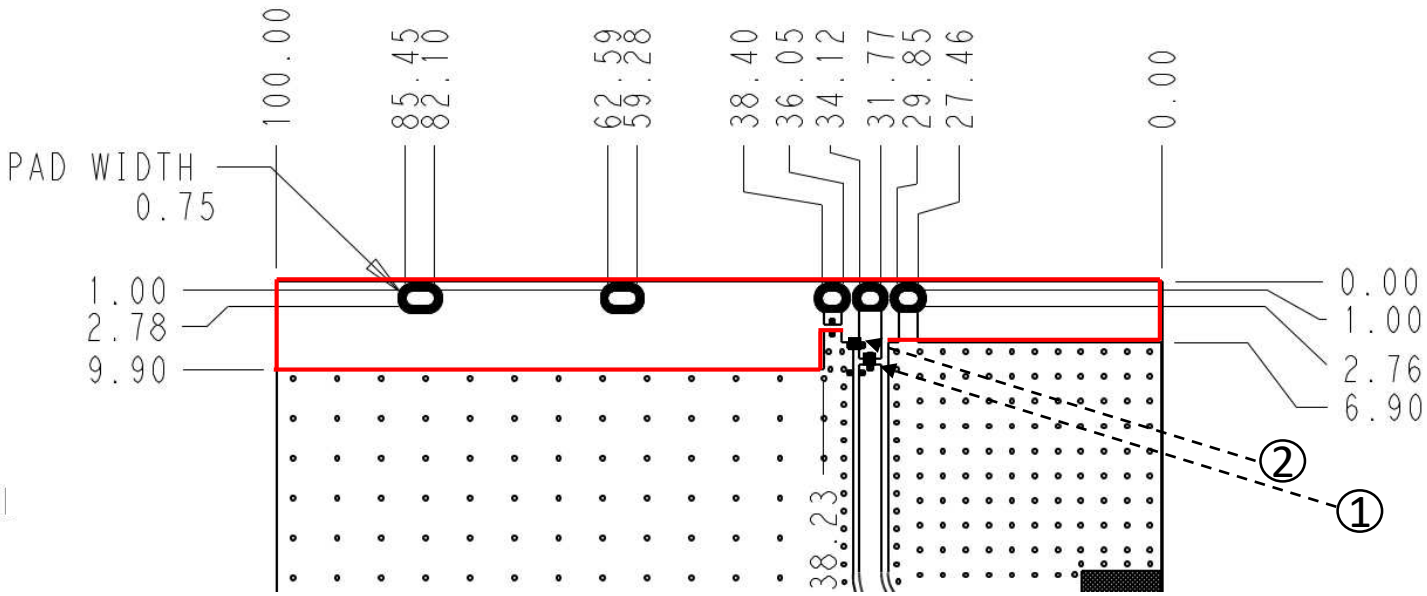
Elevation 2(YZ)



Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

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MOUNTING GUIDE

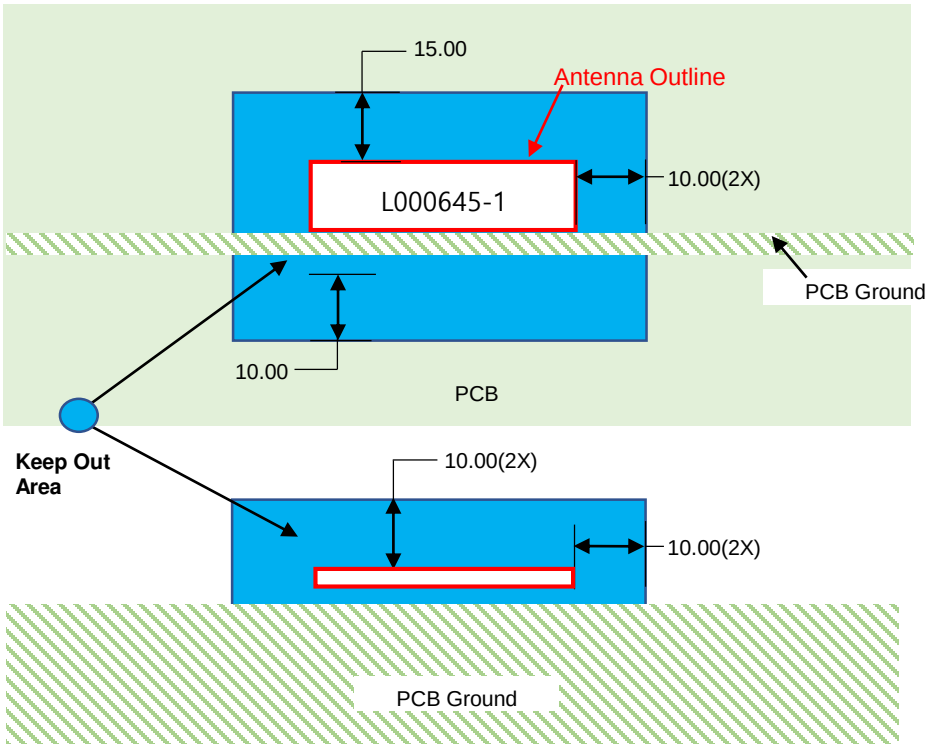


NOTES: 1. Antenna must be mounted on the edge of PCB.
2. NC = Non connection (mechanical mounting pads).
3. No copper allowed in designated area on all PCB layers –
4. For more information please call TE.
5. Measured with below matching circuit condition.
① 6.8 pF , ② 10nH
6. Reference PCB Dimension(mm) - 100 x 170 x 1.6 (diaelectric4.3)

Dimensions: mm
Diagram is not to scale

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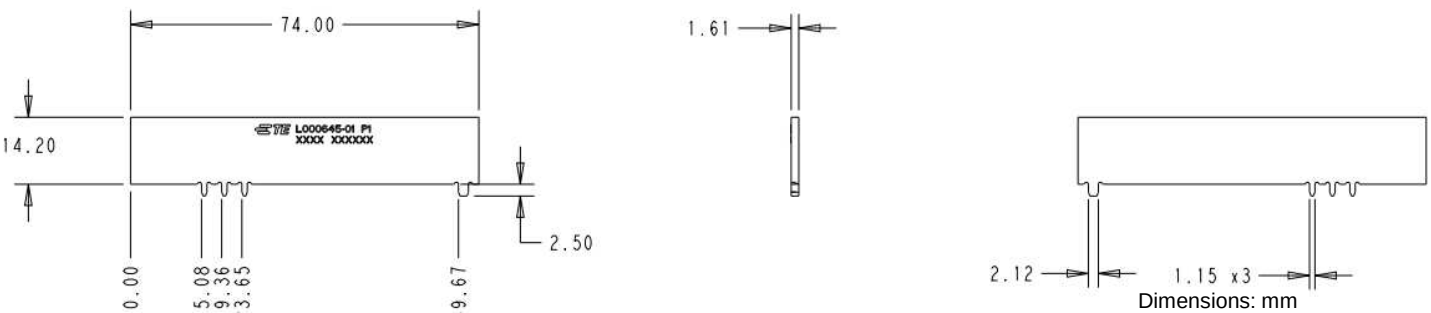
KEEP OUT AREA



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

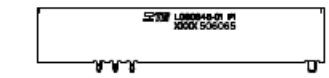


Dimensions: mm
Diagram is not to scale

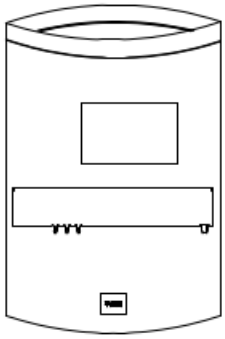
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PACKAGING

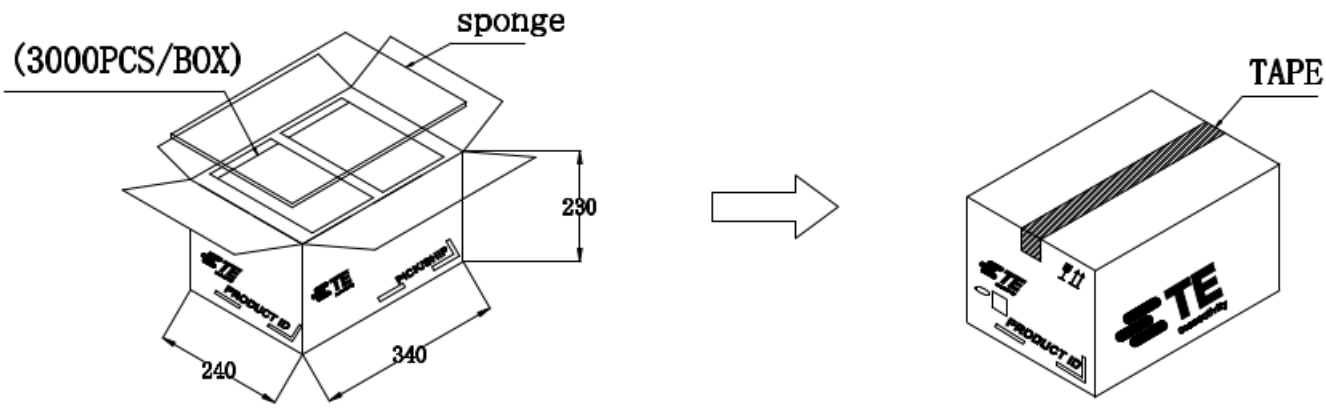
L000645-01



Wrapping film bundling



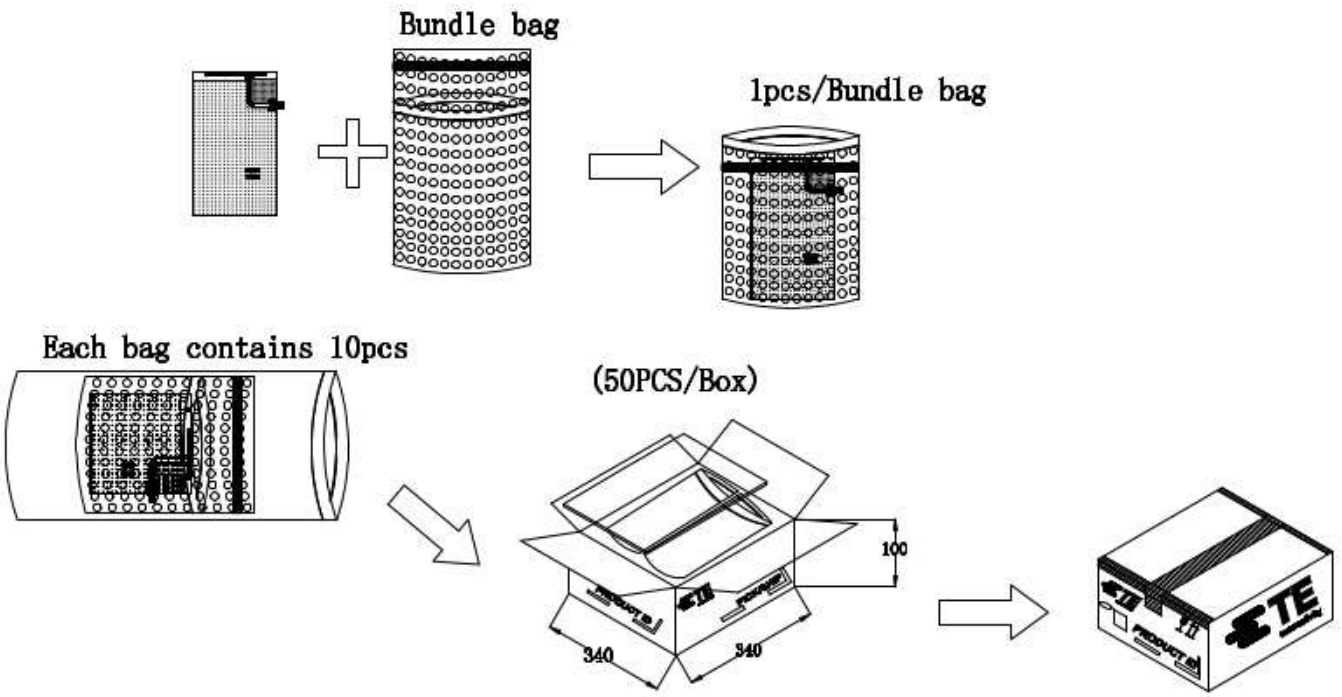
150pcs/BAG



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PACKAGING

L000645-80



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