



# 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

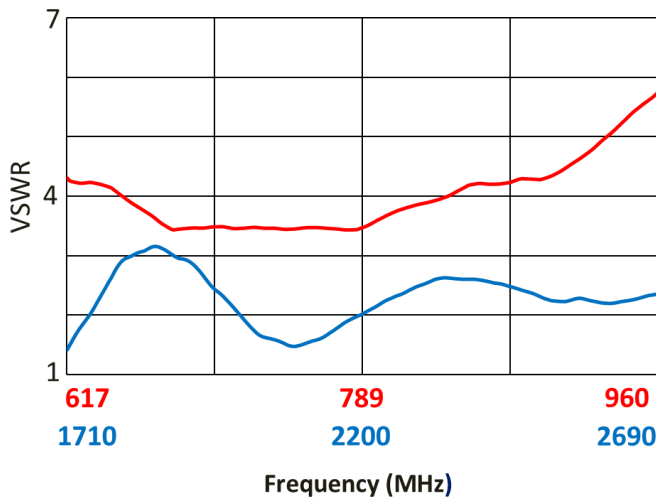
## SPECIFICATIONS

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	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.			

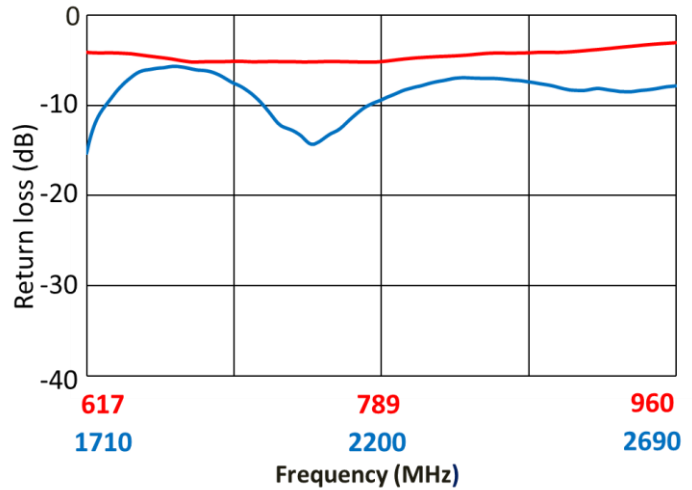
Data measured in free space and on reference ground plane of 170 mm ground length and 100 mm width, application data might vary.

## RF DATA

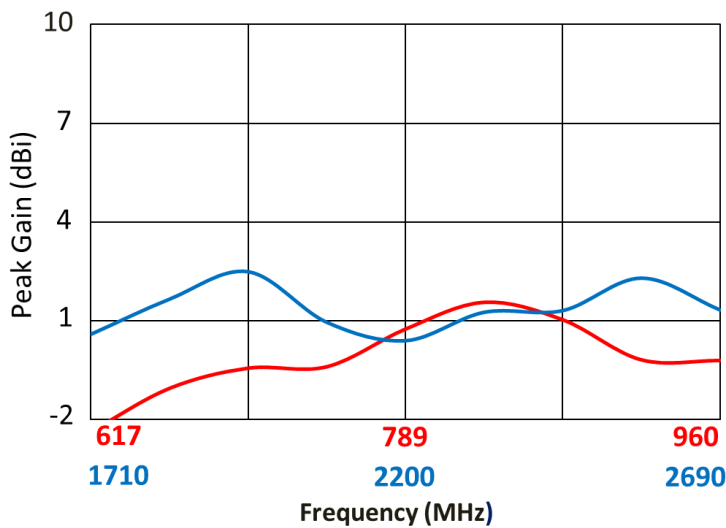
### VSWR



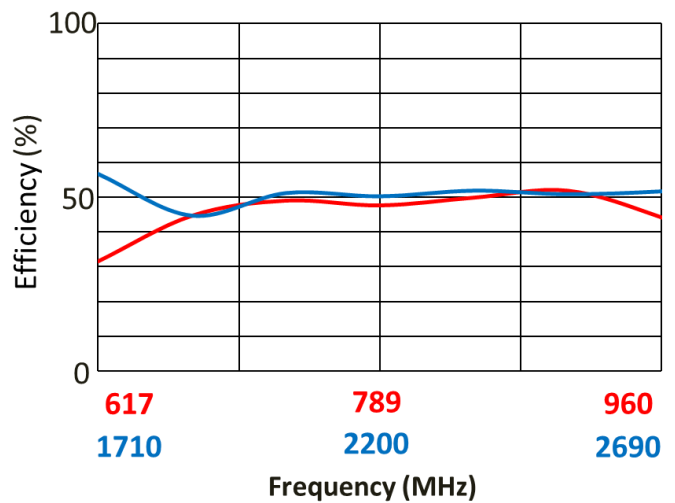
### Return Loss



### Peak Gain



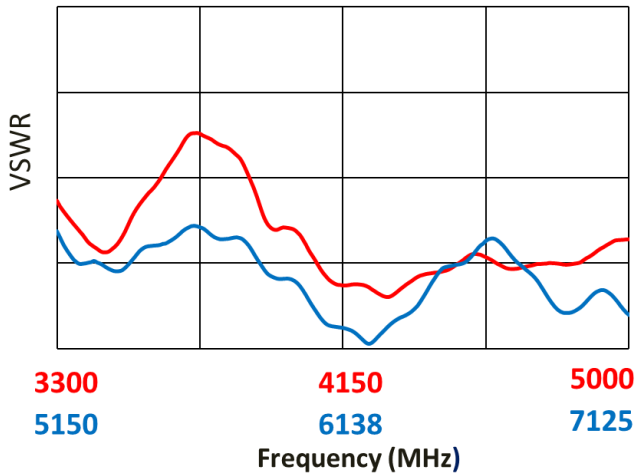
### Efficiency



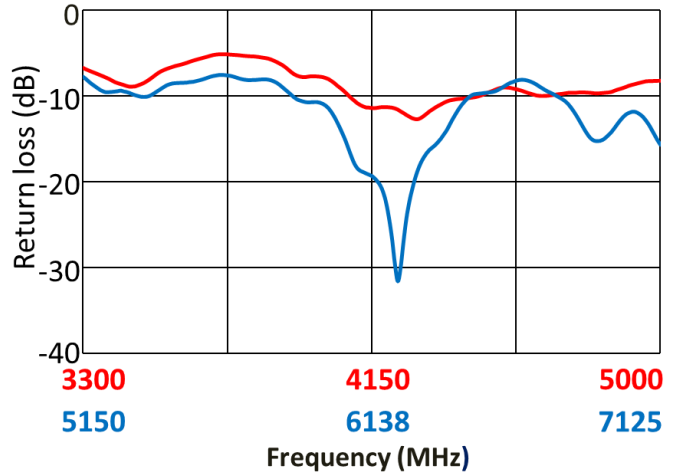
Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

## RF DATA

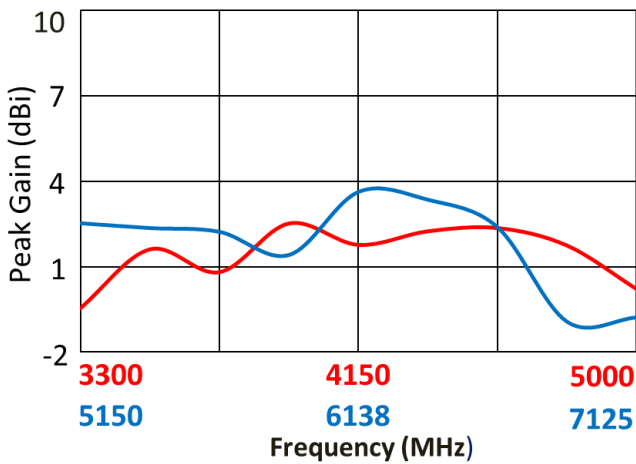
### VSWR



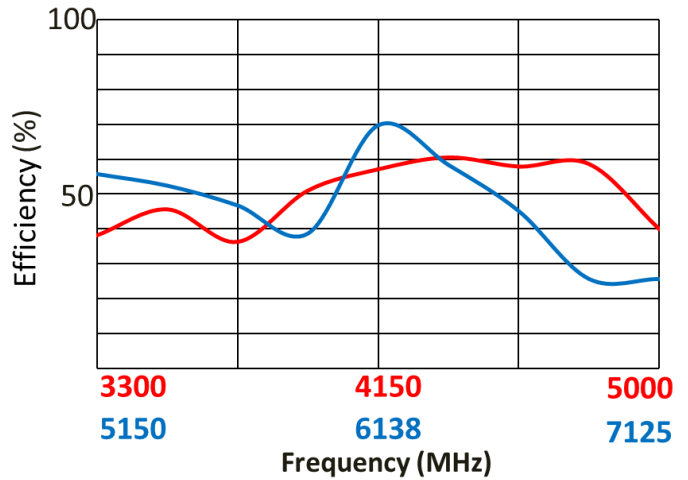
### Return Loss



### Peak Gain



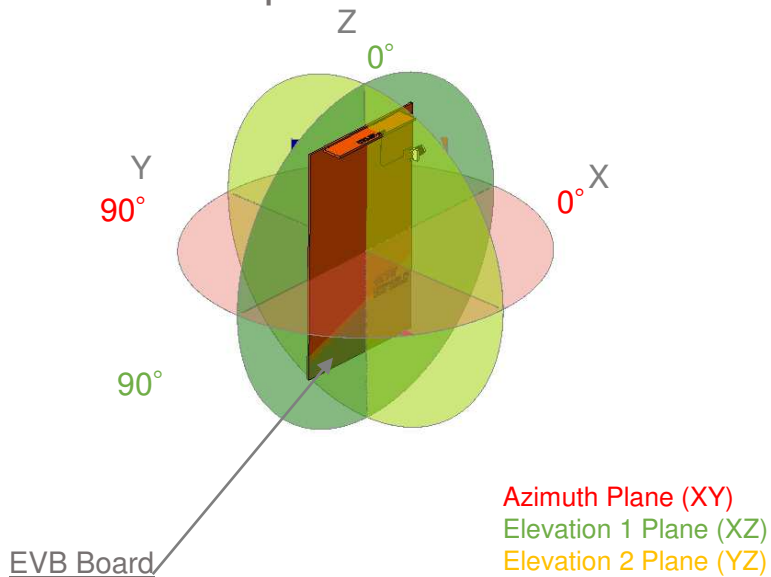
### Efficiency



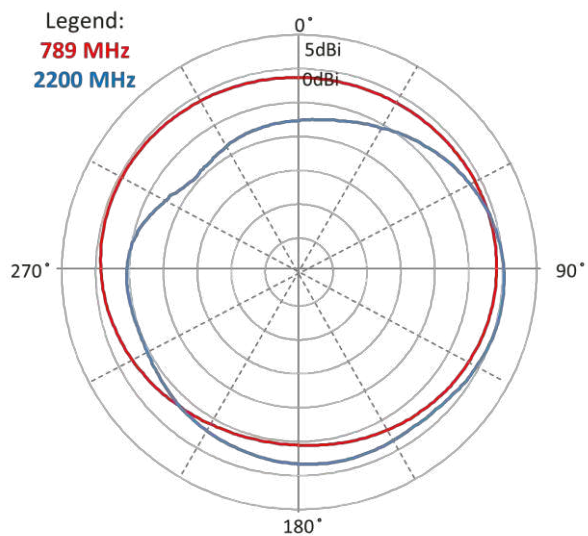
Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

## RADIATION PATTERN

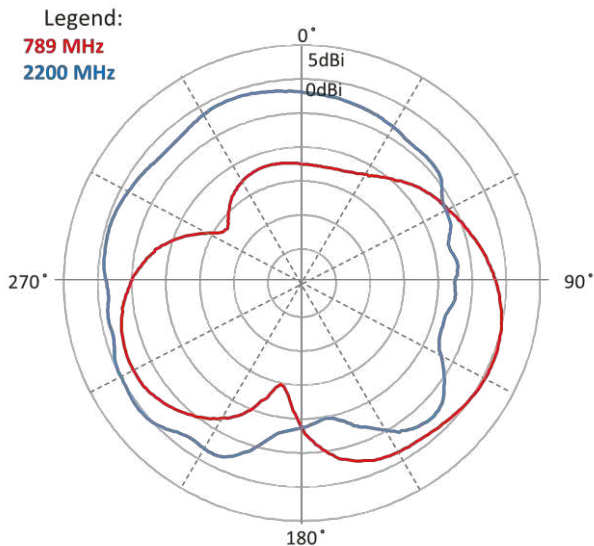
Test setup



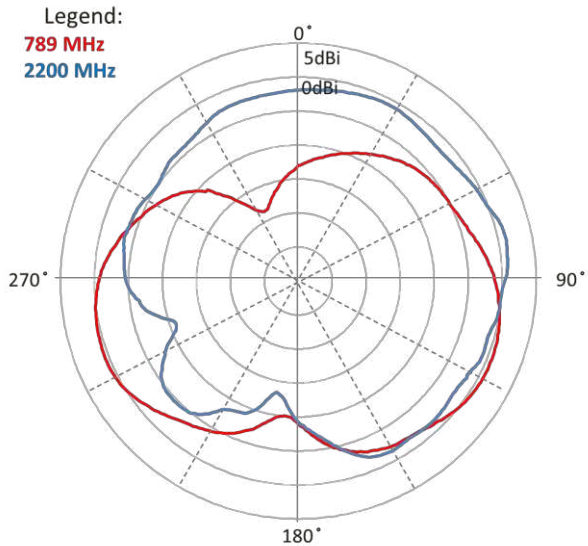
Azimuth(XY)



Elevation 1(XZ)



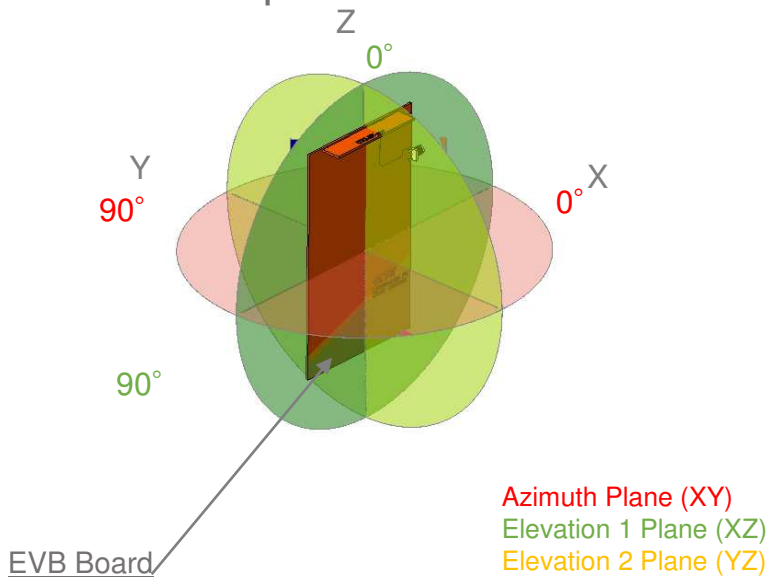
Elevation 2(YZ)



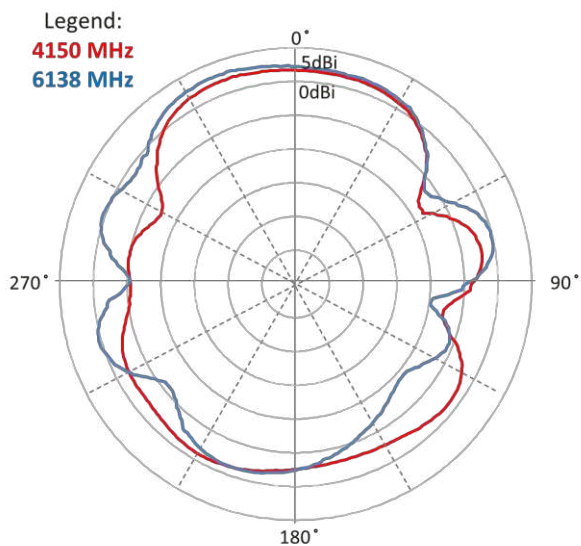
Data measured in free space and on reference ground plane of 170mm ground length and 100mm width, application data might vary.

## RADIATION PATTERN

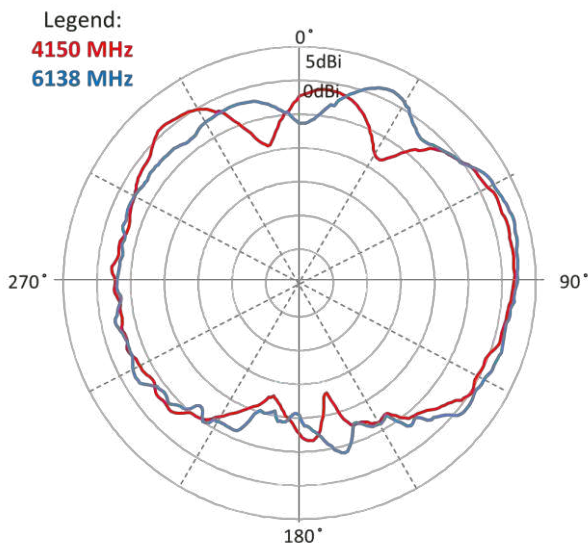
Test setup



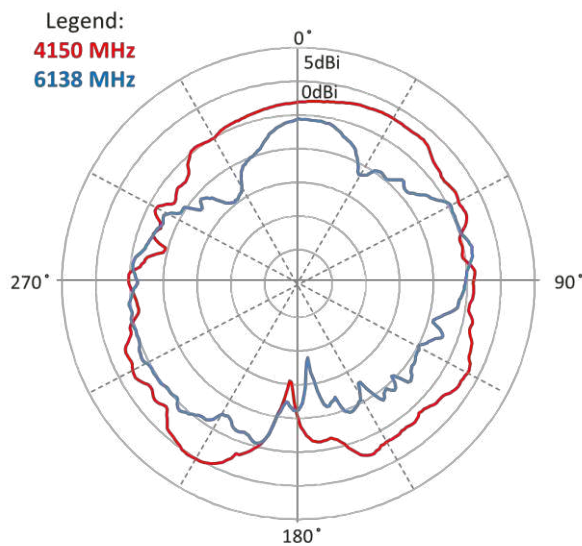
Azimuth(XY)



Elevation 1(XZ)

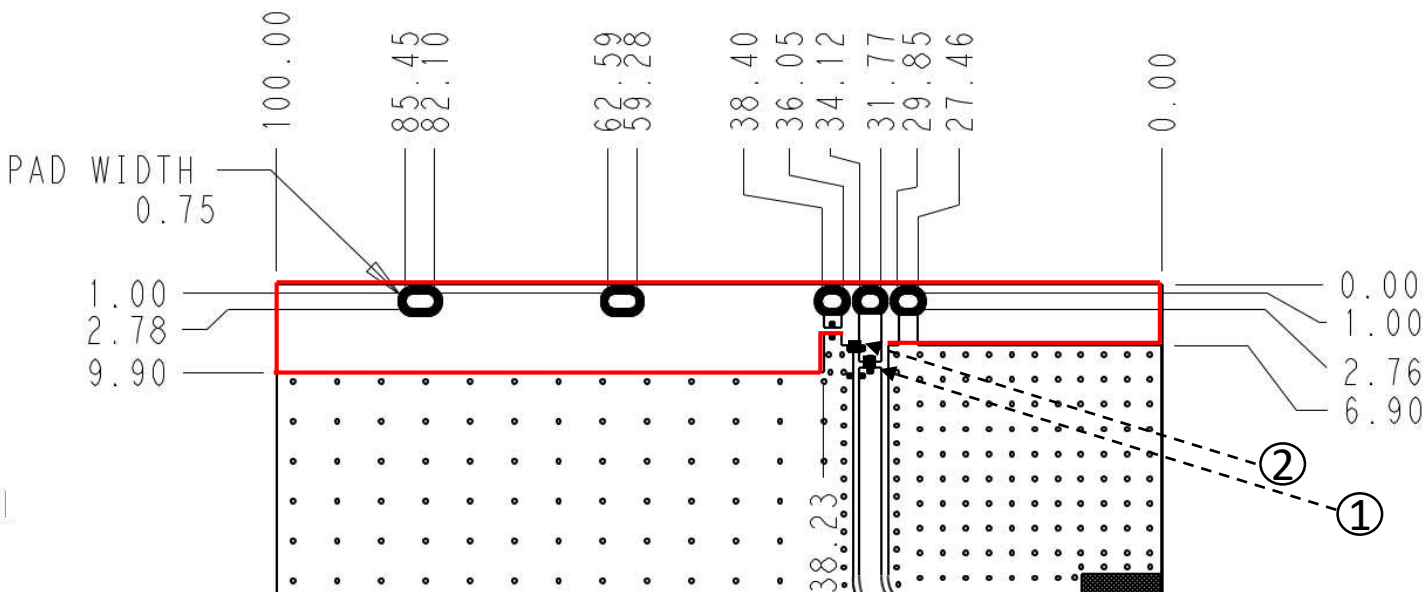



Elevation 2(YZ)



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

## MOUNTING GUIDE



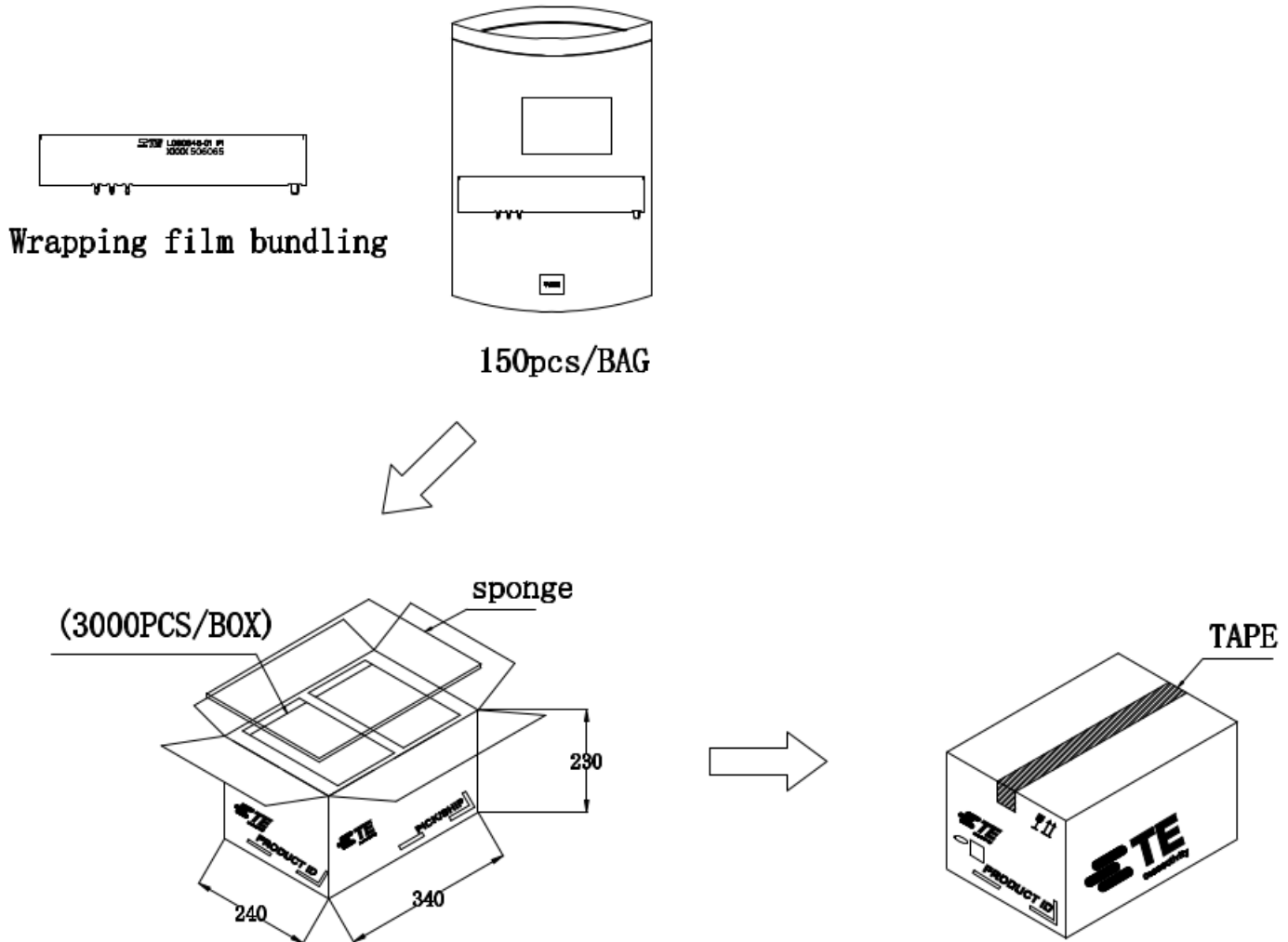
- NOTES:**
1. Antenna must be mounted on the edge of PCB.
  2. NC = Non connection (mechanical mounting pads).
  3. No copper allowed in designated area on all PCB layers – 
  4. For more information please call TE.
  5. Measured with below matching circuit condition.  
① 6.8 pF, ② 10nH
  6. Reference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

Dimensions: mm  
Diagram is not to scale



## PACKAGING

L000645-01

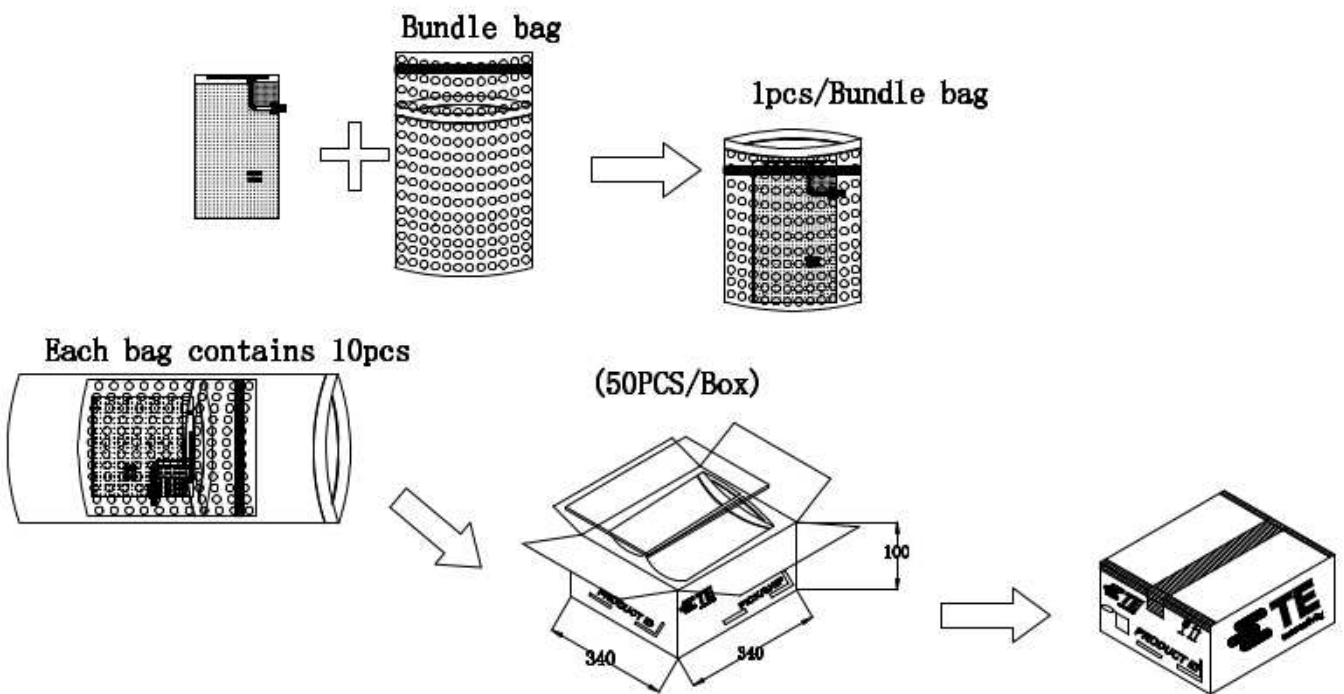


# PCB ANTENNA, TAB MOUNT, 617-7125MHz 74 x 14.2 x 1.61 mm

Standard Antenna Solutions

## PACKAGING

L000645-80



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

Standard Antenna Solutions

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