



5G, 617-5925MHz Ceramic SMD Antenna, (40x5x6mm)

Part Numbers: L000938-01
L000938-80

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 (L000938-80)
- Bandwidth and performance dependent on ground plane size/ design
- RoHS 2.0 Compliant, Road Vehicle Compliant, REACH Compliant

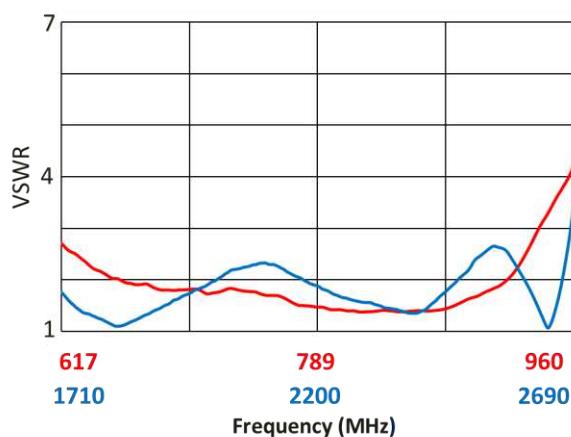
SPECIFICATIONS

Frequency Range (MHz)	617-960	1710-2690	3300-5000	5150-5925
VSWR	< 4.5 :1	< 3.5:1	< 4:1	< 4.5:1
Average Efficiency	66.00%	69.00%	66.00%	50%
Peak Gain	1.3dBi	4.5dBi	2.3dBi	1.7dBi
Average Gain	-2 dBi	-1.8dBi	-1.9dBi	-3.1dBi
Power Handling	5 Watt			
Feed Point Impedance	50 ohms unbalanced			
Polarization	Linear			
Size	40 mm x 5 mm x 6 mm			
Weight	< 1.5 g			
Mounting	Surface mount			
Operating Temperature	-40 to +85°C			
Storage Temperature	-40 to +85°C			
Storage Temperature (Antenna with packing sealed)	-5 to +40°C			
Packaging Specification	Tape & Reel			
Hazardous Materials	A certificate of conformance is available from the product page on TE website.			

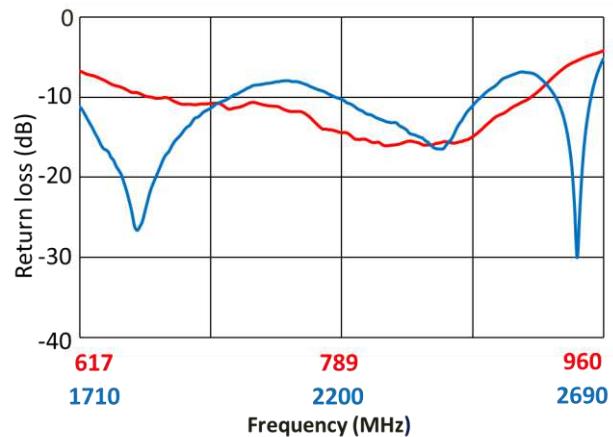
Data measured on reference ground plane of 147.7 mm length and 45 mm width, application data might vary.

RF DATA

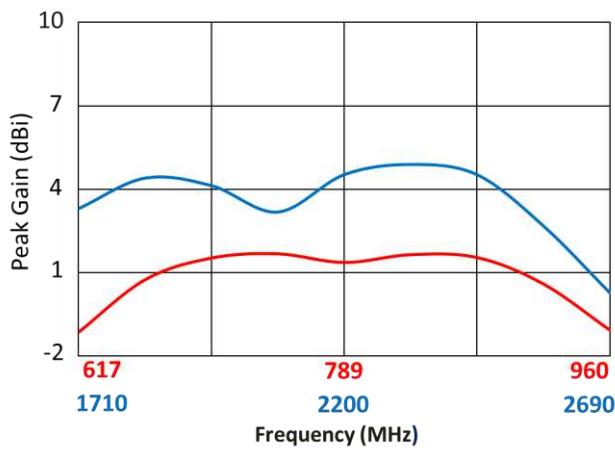
VSWR



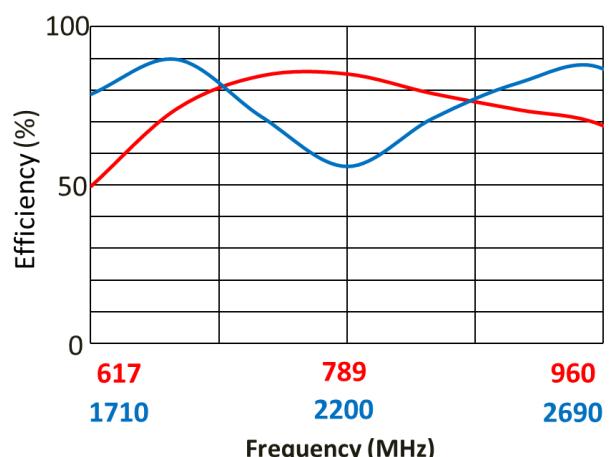
Return Loss



Peak Gain



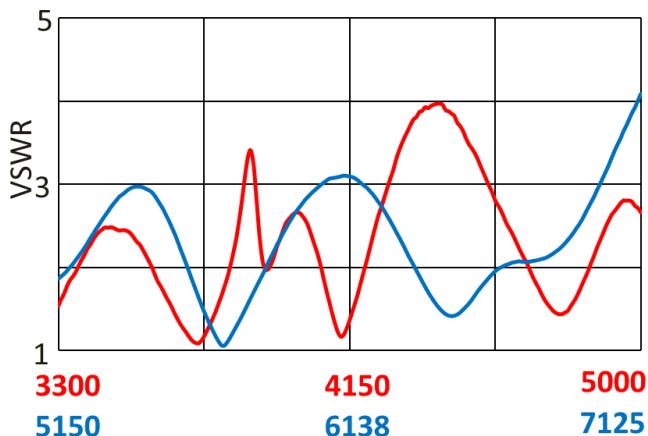
Efficiency



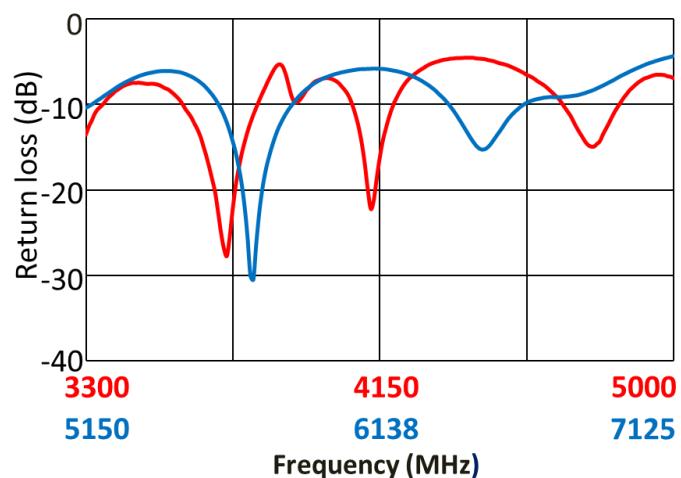
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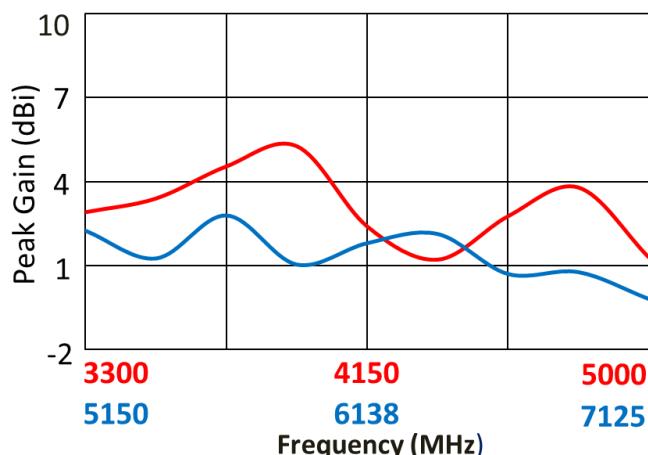
VSWR



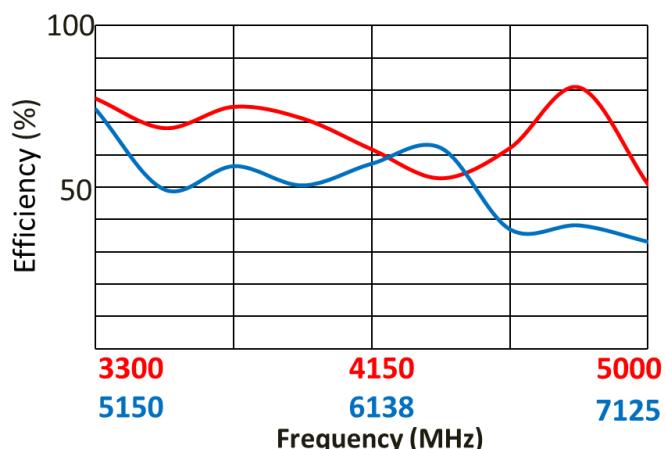
Return Loss



Peak Gain



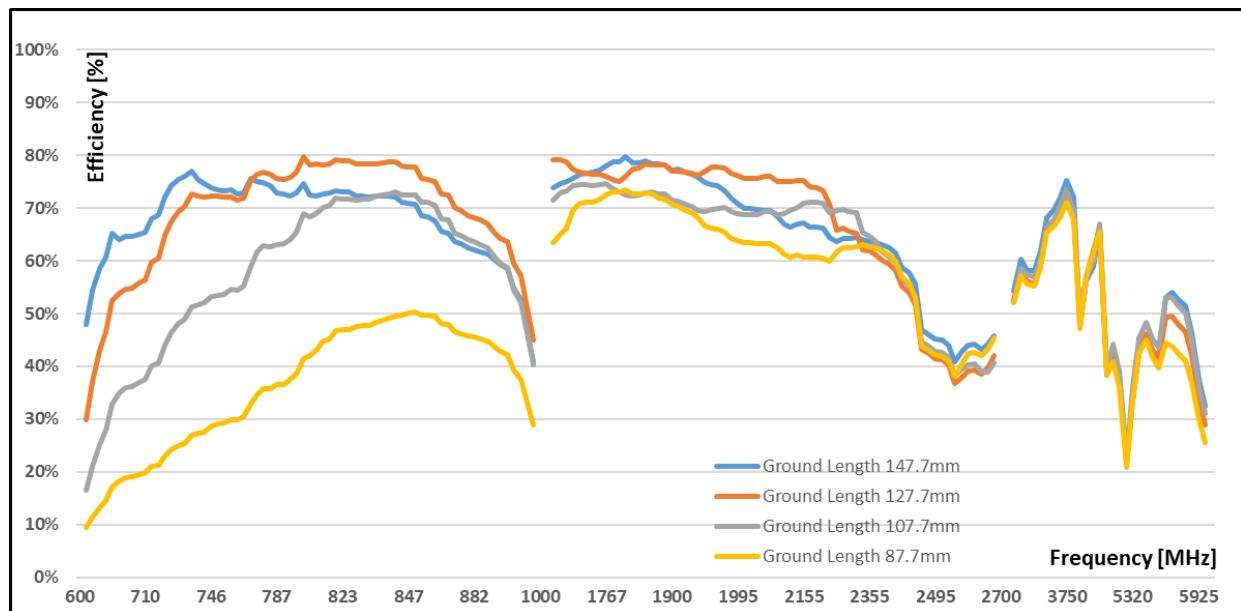
Efficiency



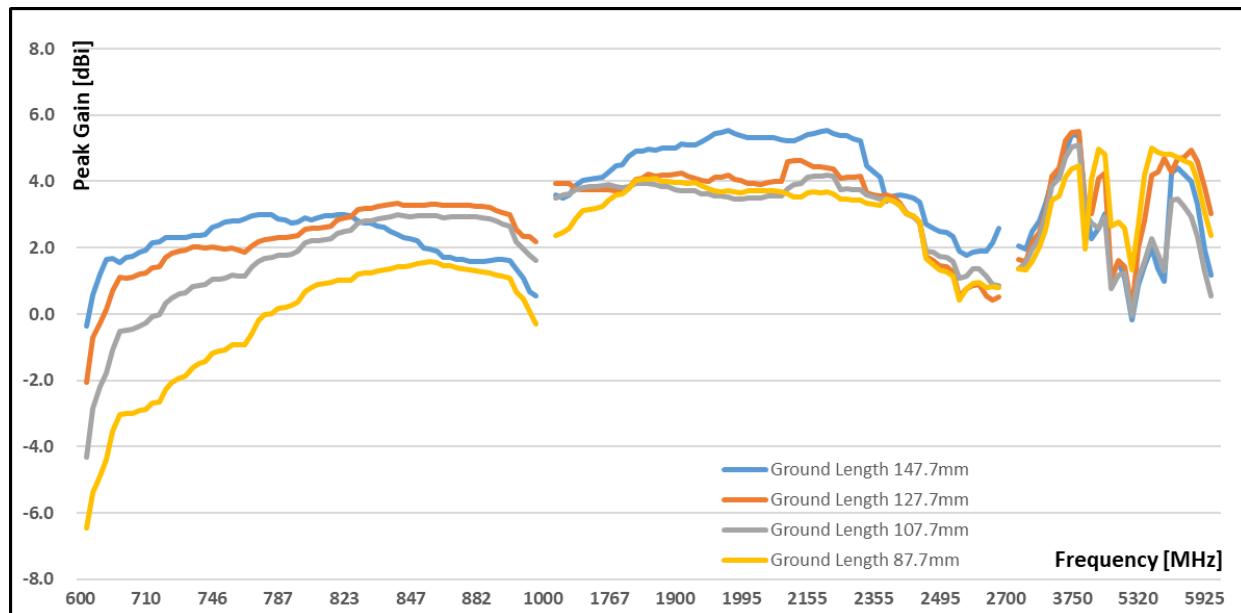
Data measured on reference ground plane of 147.7 mm length and 45 mm width, application data might vary.

RF DATA

Efficiency(%) vs. Ground Length size

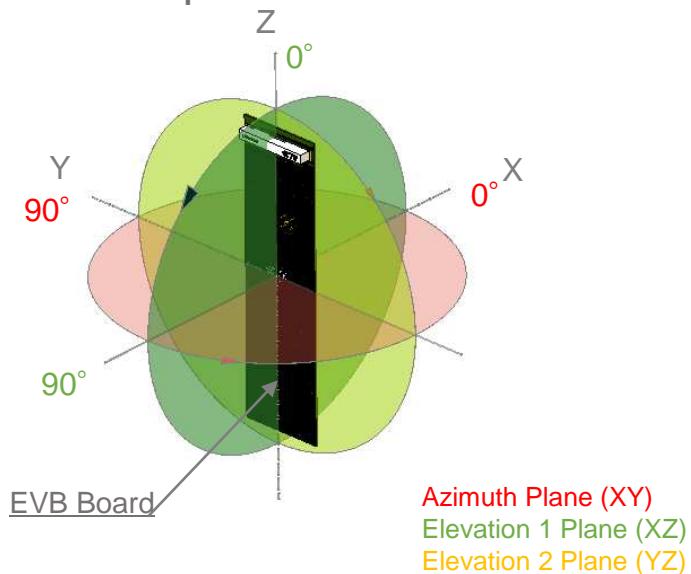


Peak Gain(dBi) vs. Ground Length size

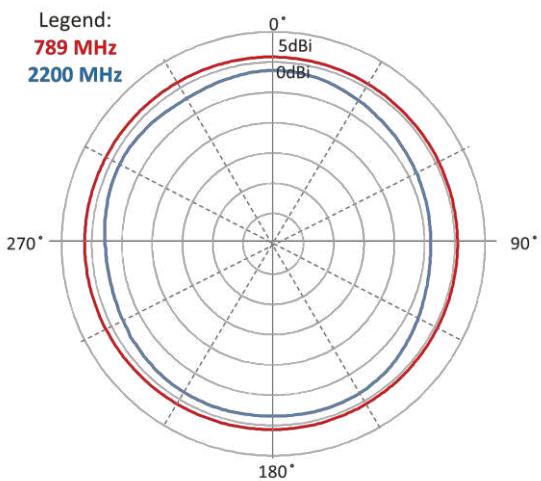


RADIATION PATTERN

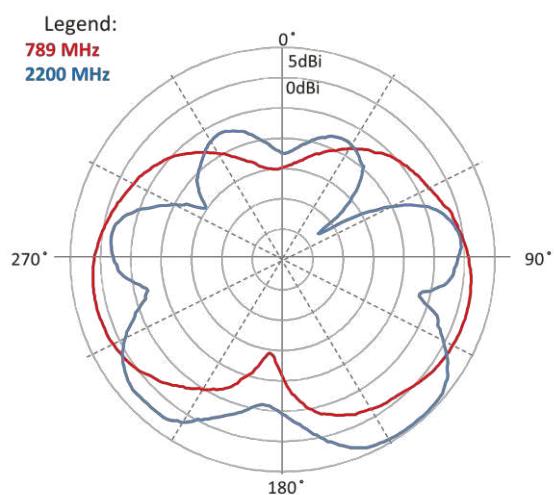
Test setup



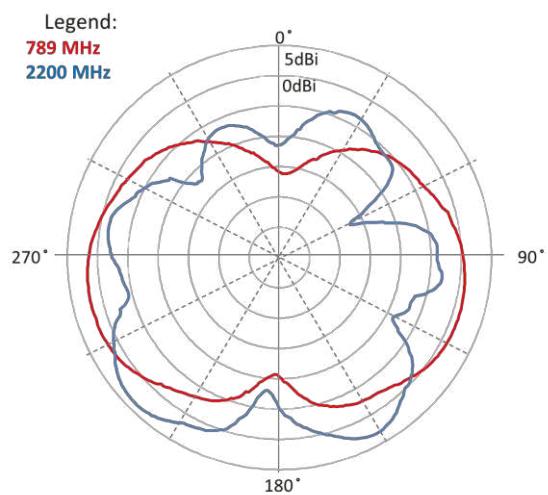
Azimuth(XY)



Elevation 1(XZ)



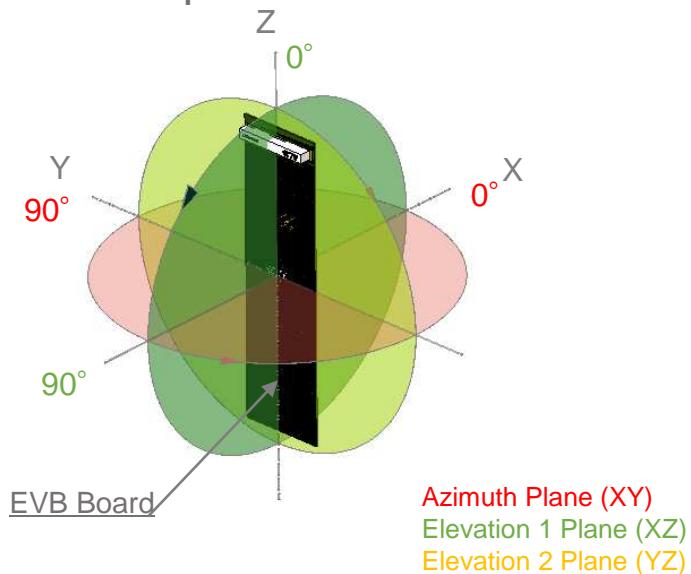
Elevation 2(YZ)



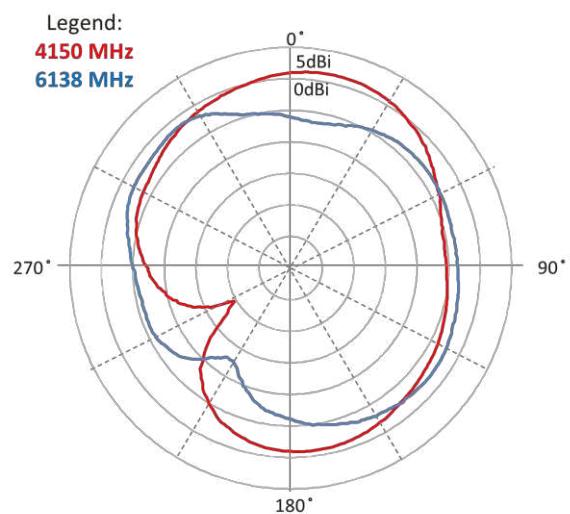
Data measured on reference ground plane of 147.7 mm length and 45 mm width, application data might vary.

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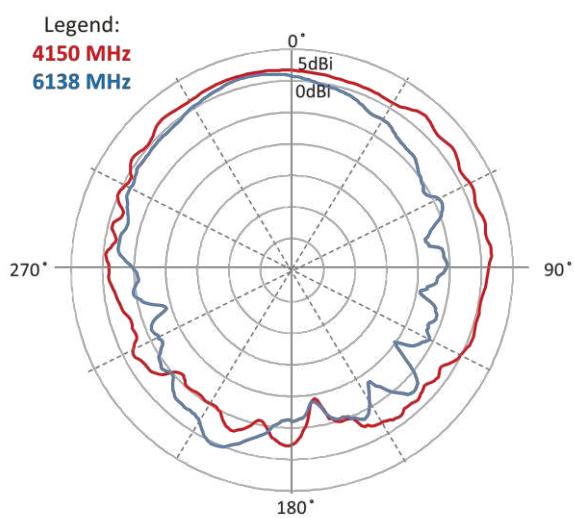
Test setup



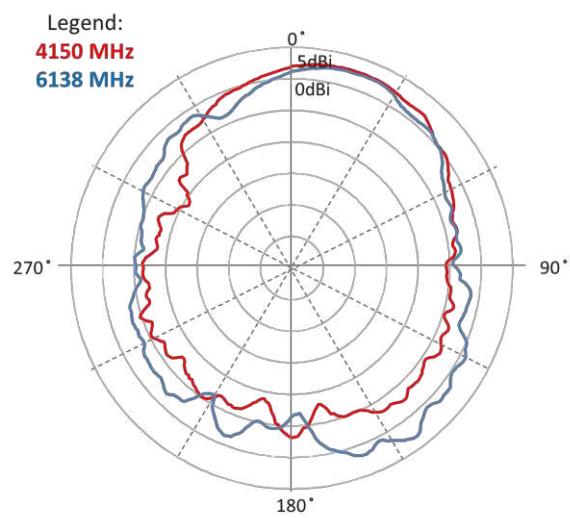
Azimuth(XY)



Elevation 1(XZ)



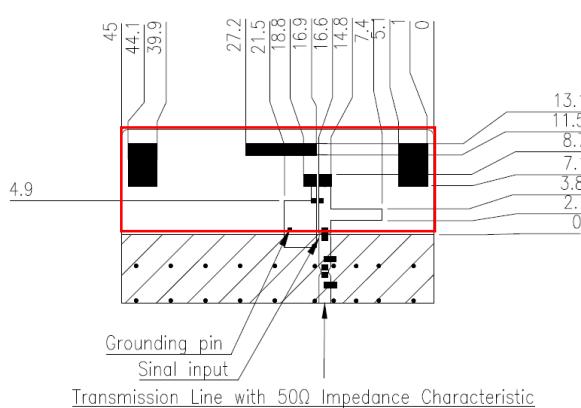
Elevation 2(YZ)



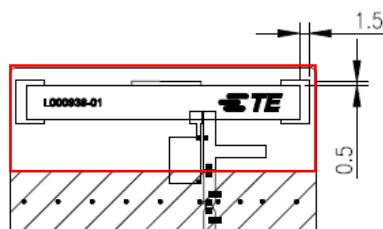
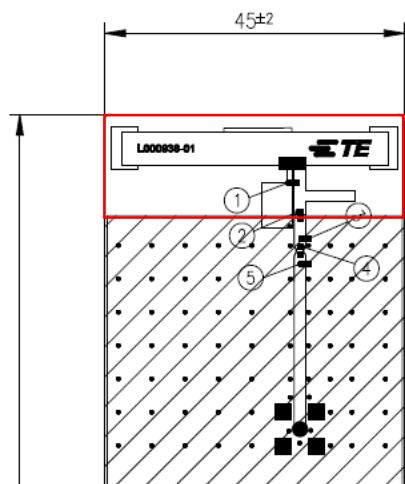
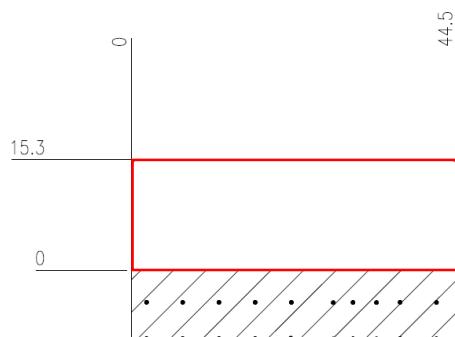
Data measured on reference ground plane of 147.7 mm length and 45 mm width, application data might vary.

MOUNTING GUIDE

Top View



Bottom View



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.

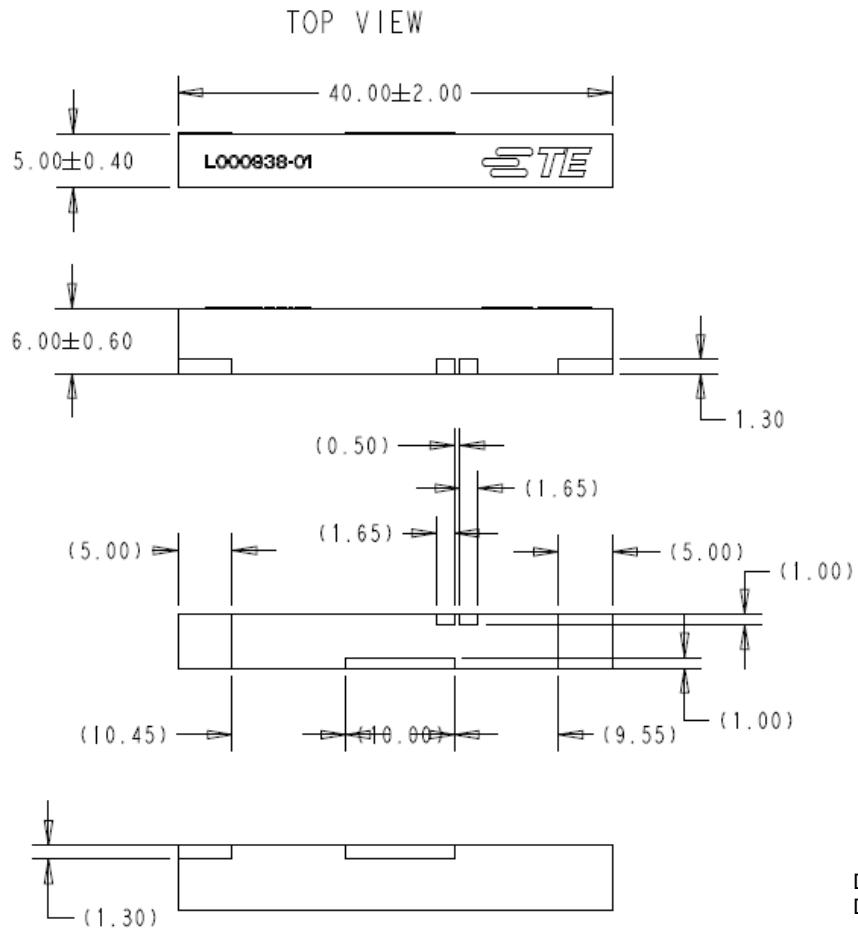
5. Measured with below matching circuit condition.

① 6.8 nH, ② 6.8 pF, ③ N/C ④ 0Ω ⑤ N/C

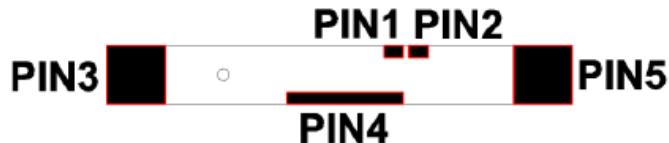
6. Reference PCB Dimension(mm) - 45 x 163 x 1.0 (dielectric4.3)

Dimensions: mm
Diagram is not to scale

DIMENSIONS



PIN DEFINITION



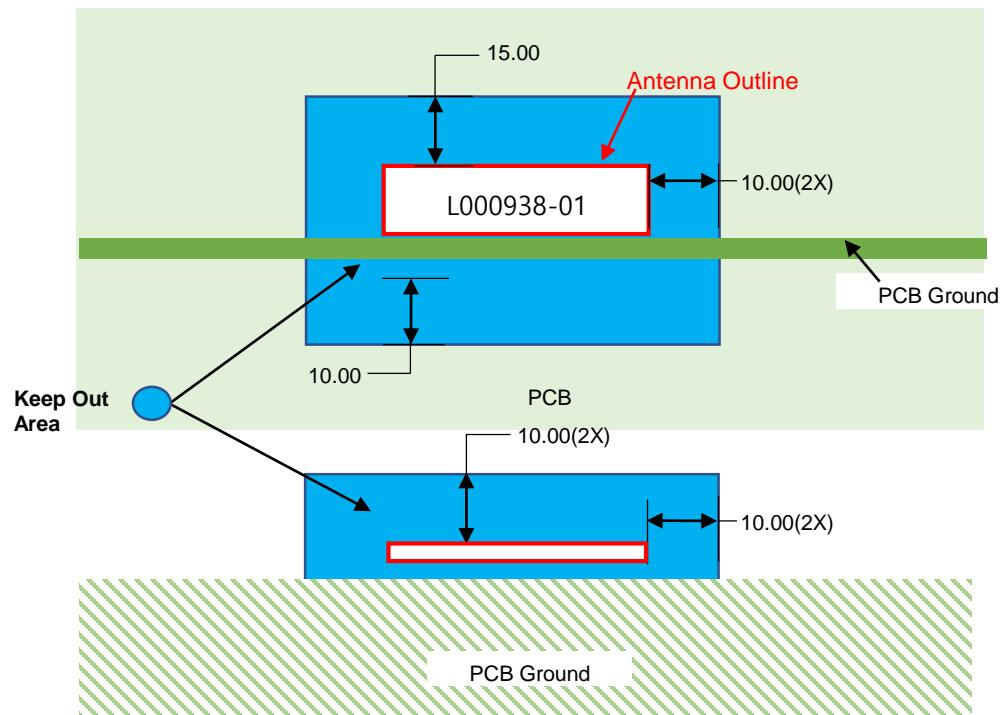
Bottom View

PIN	1	2	3~5
Soldering Pad	Tuning/Ground	Signal	Fixing

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Standard Antenna Solutions

KEEP OUT AREA

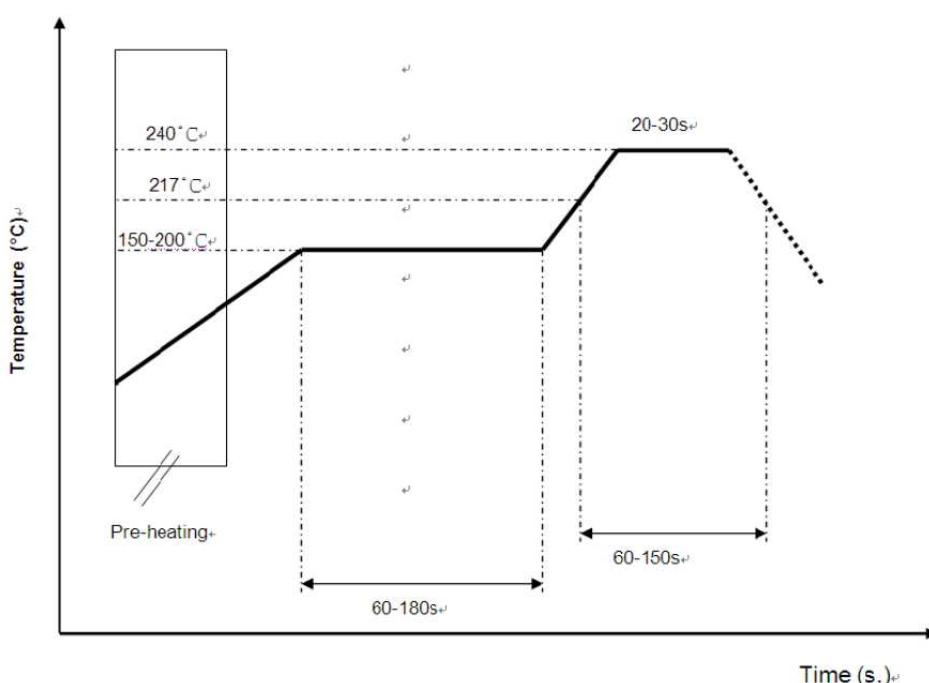


NOTES: 1. Antenna designed to be mounted on PCB.
2. Area in blue above indicates Keep Out Area.
3. For more information, please call TE.

Dimensions: mm
Diagram is not to scale

SOLDERING CONDITIONS

Typical soldering profile for Lead-free process

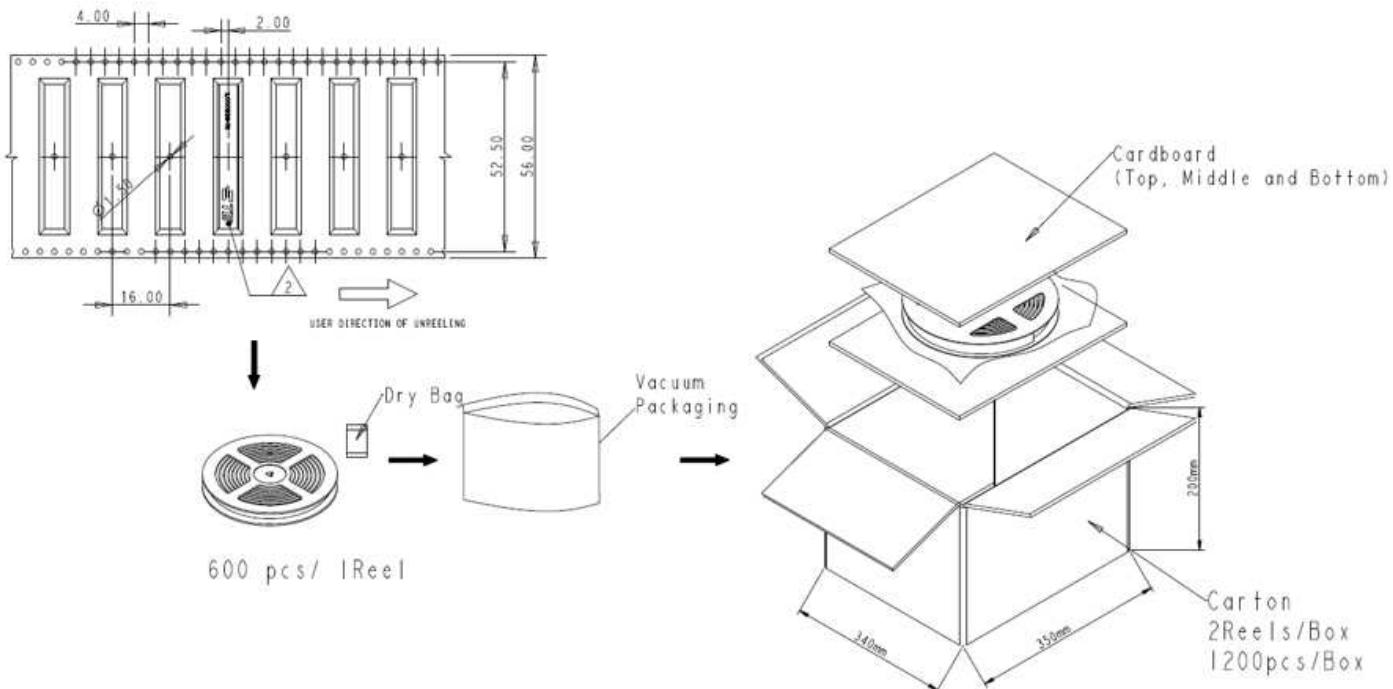


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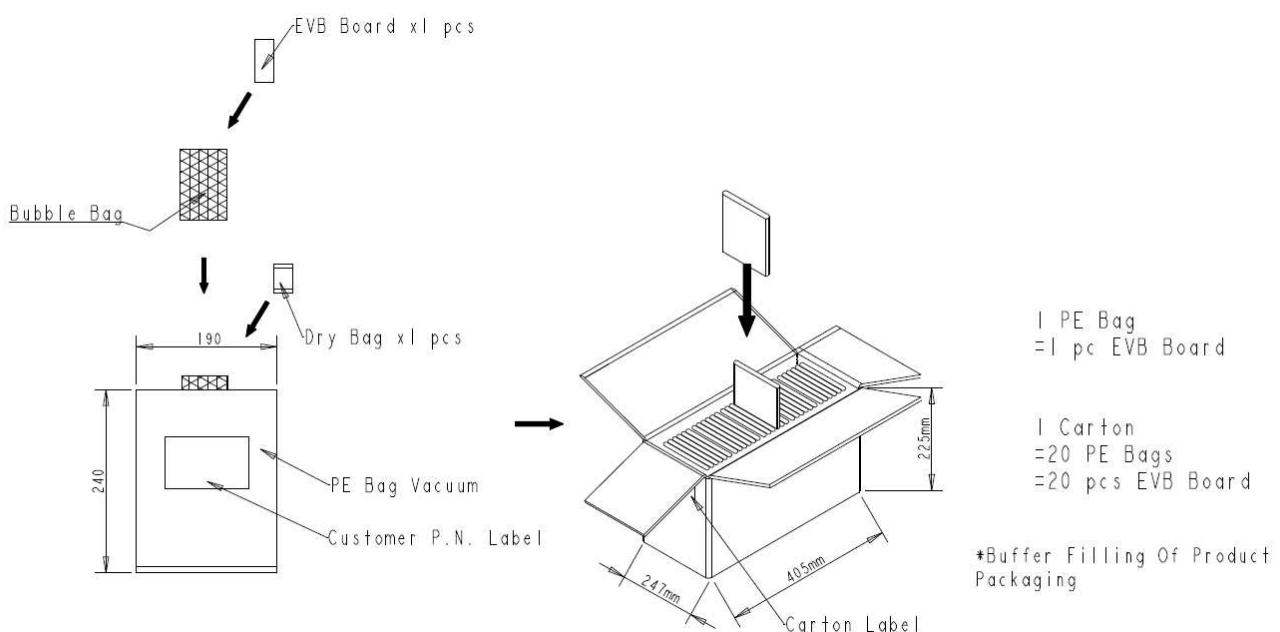
Standard Antenna Solutions

PACKAGING

L000938-01



L000938-80



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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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