

698-3800 MHz LTE Global WORLD BAND COMBINATION ANTENNA

Part Numbers: 2479240-1

FEATURES & BENEFITS

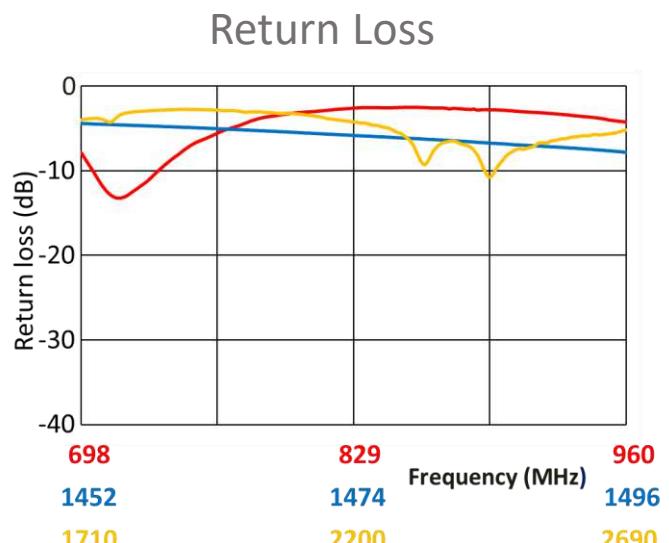
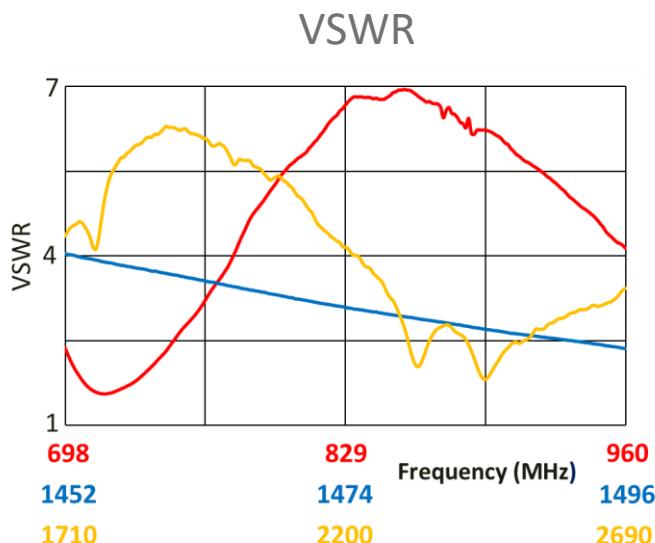
- Omnidirectional coverage
- High efficiency, low profile, on board Tap Mount PCB antenna
- Wide Band coverage for 3G, 4G and 5G, LTE, GNSS, Bluetooth
- Bandwidth and performance dependent on ground plane size/ design suggested minimum ground plane length from antenna feed is 91mm
- RoHS 2.0 Compliant, Road Vehicle Compliant, REACH Compliant

SPECIFICATIONS

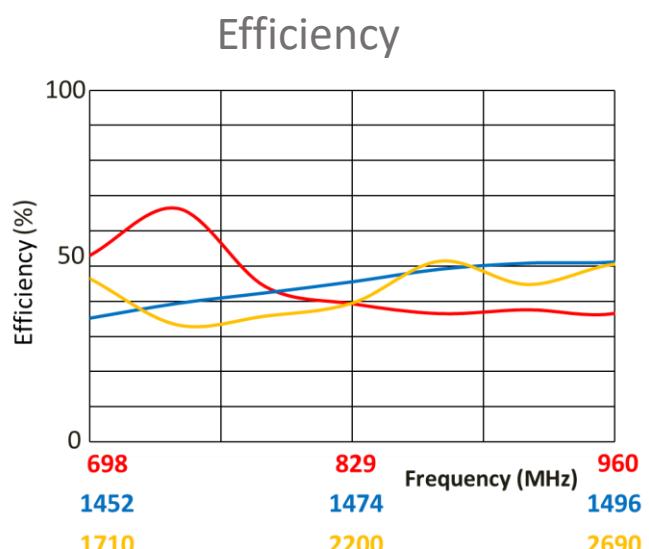
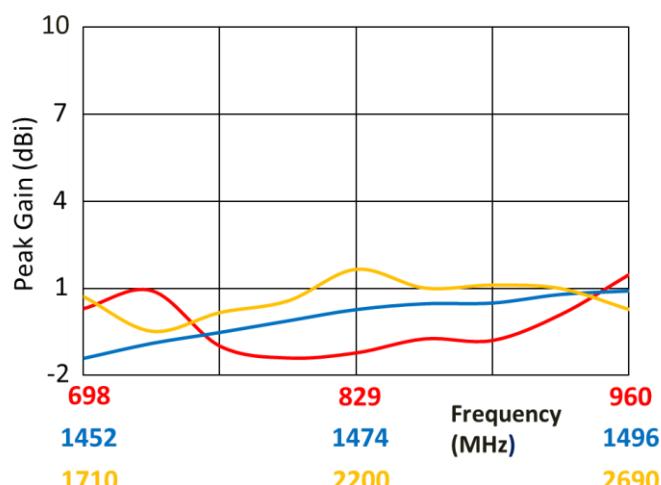
Frequency Range (MHz)	698-960	1452-1496	1710-2690	3300-3800
VSWR	< 7.0:1	< 4.1:1	< 6.3:1	< 3.8:1
Average Efficiency	46%	47%	43%	39%
Peak Gain	-1.3dBi	0.2dBi	1.6dBi	2.4dBi
Average Gain	-3.4dBi	-3.4dBi	-3.7dBi	-4.1dBi
Power Handling	10 Watt cw			
Feed Point Impedance	50 ohms unbalanced			
Polarization	Linear			
Size	55 mm x 15 mm x 1.6 mm			
Weight	< 2.8 g			
Mounting	Tab mount with plated through holes			
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 91 mm ground length and 150 mm width, application data might vary.

RF DATA



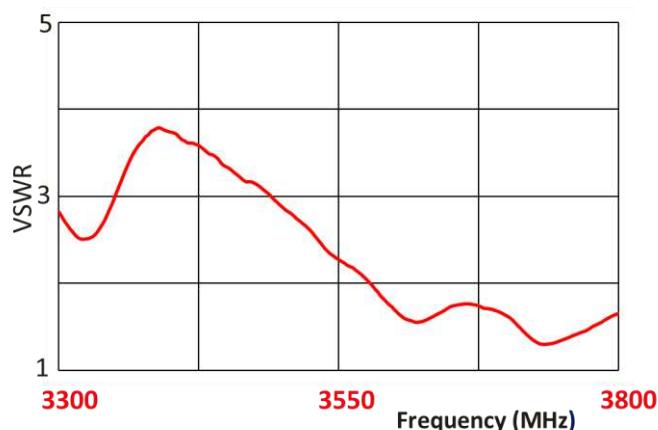
Peak Gain



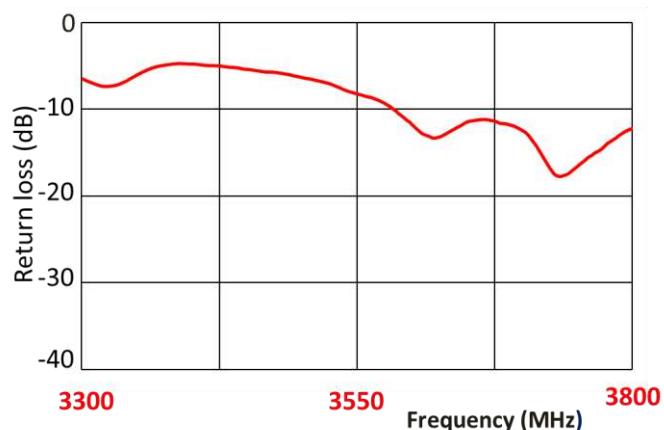
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RF DATA

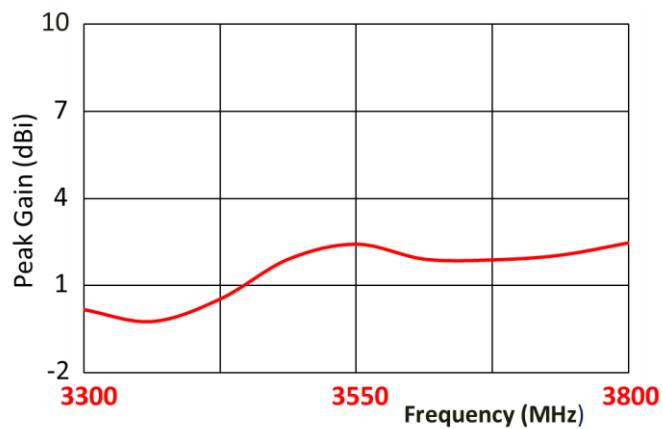
VSWR



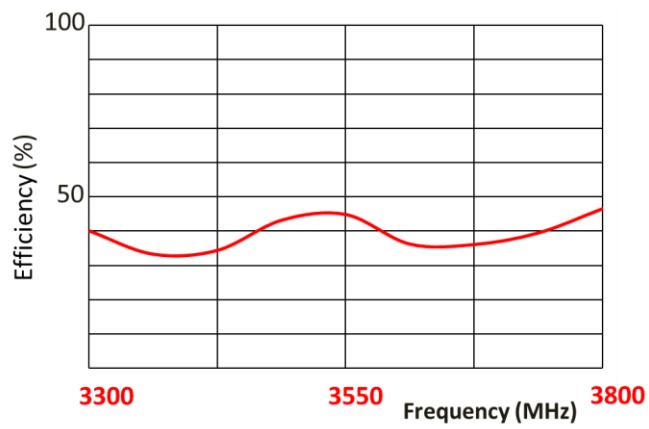
Return Loss



Peak Gain



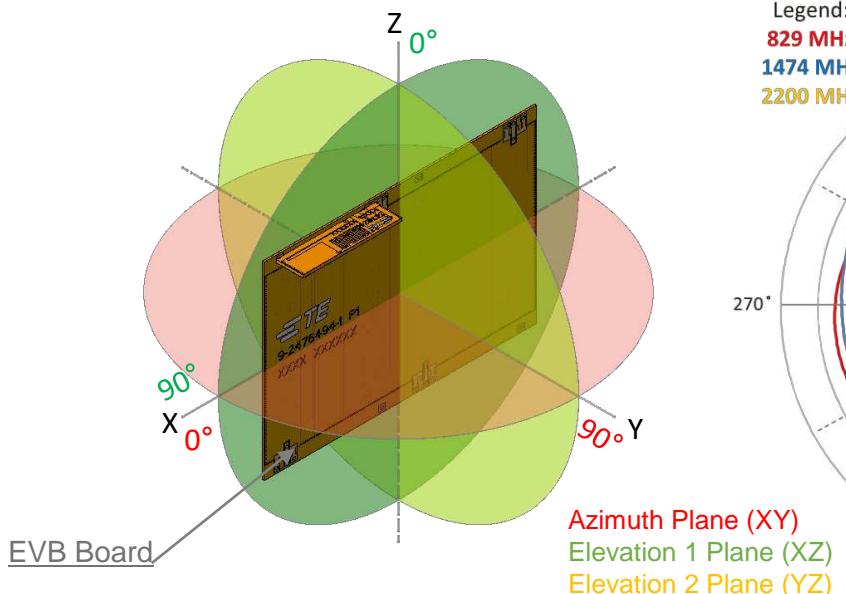
Efficiency



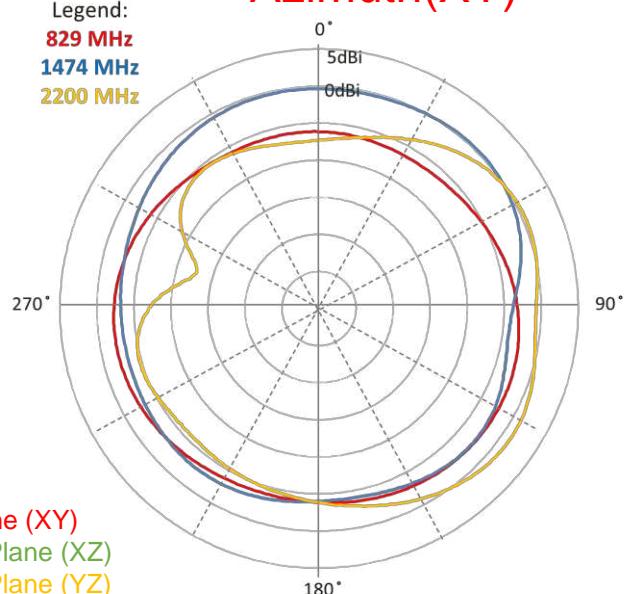
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RADIATION PATTERN

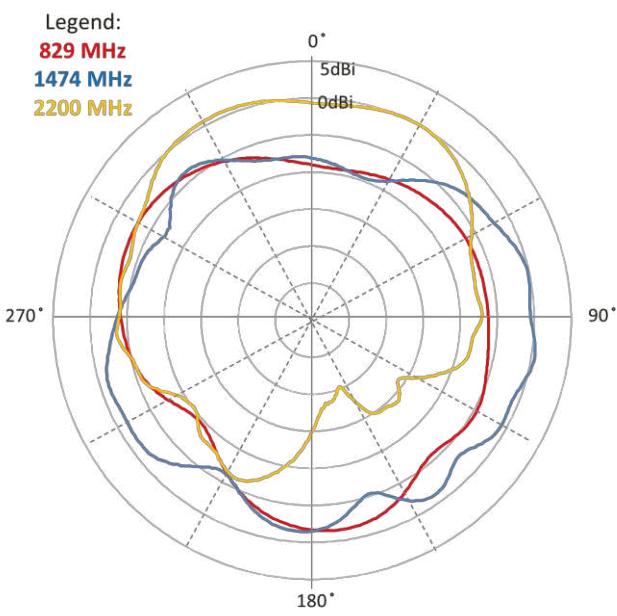
Test setup



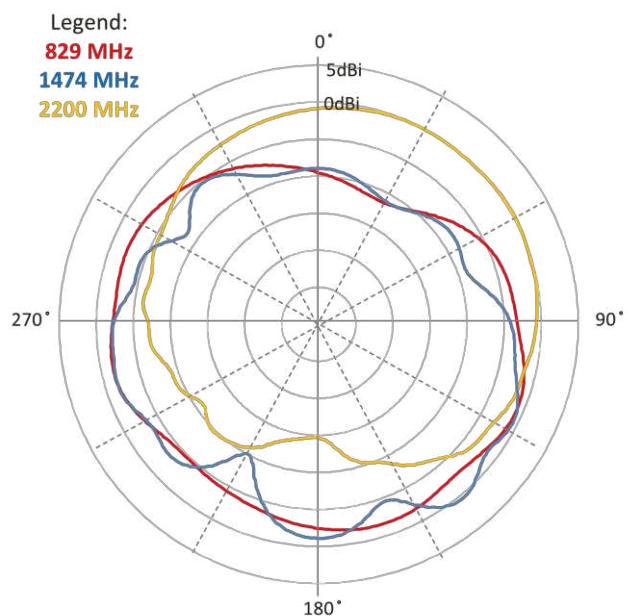
Azimuth(XY)



Elevation 1(XZ)



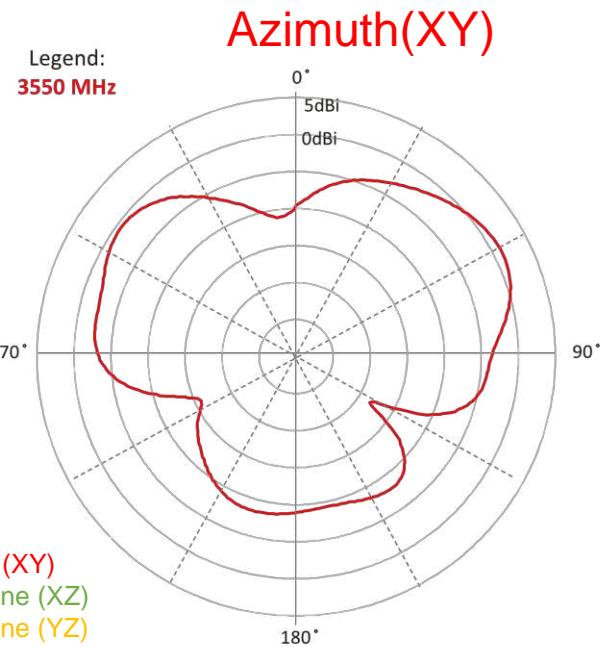
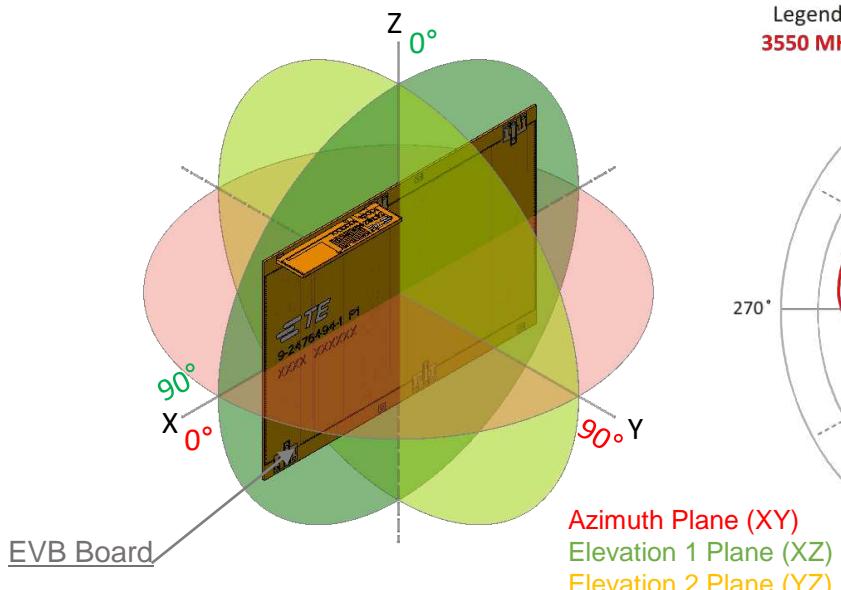
Elevation 2(YZ)



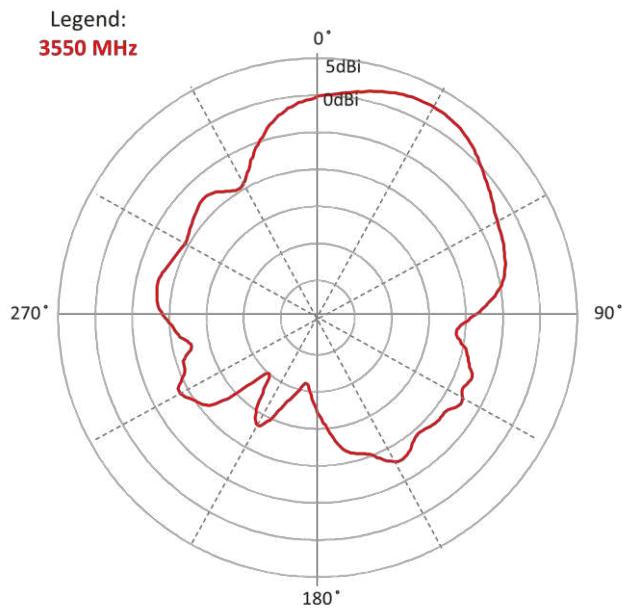
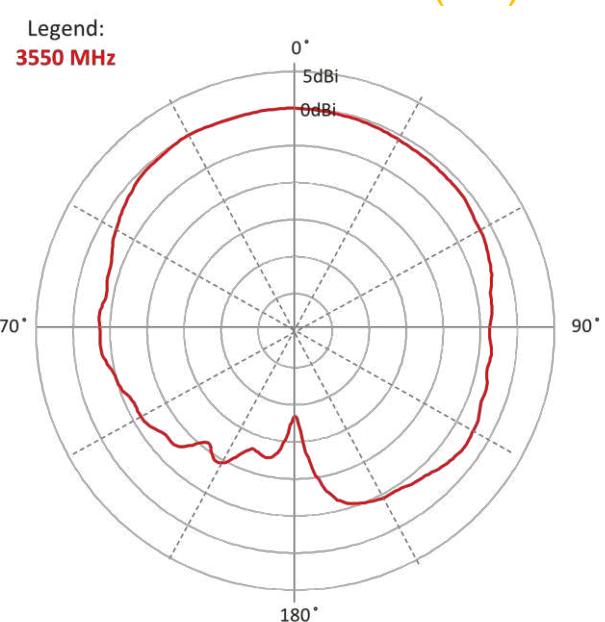
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RADIATION PATTERN

Test setup

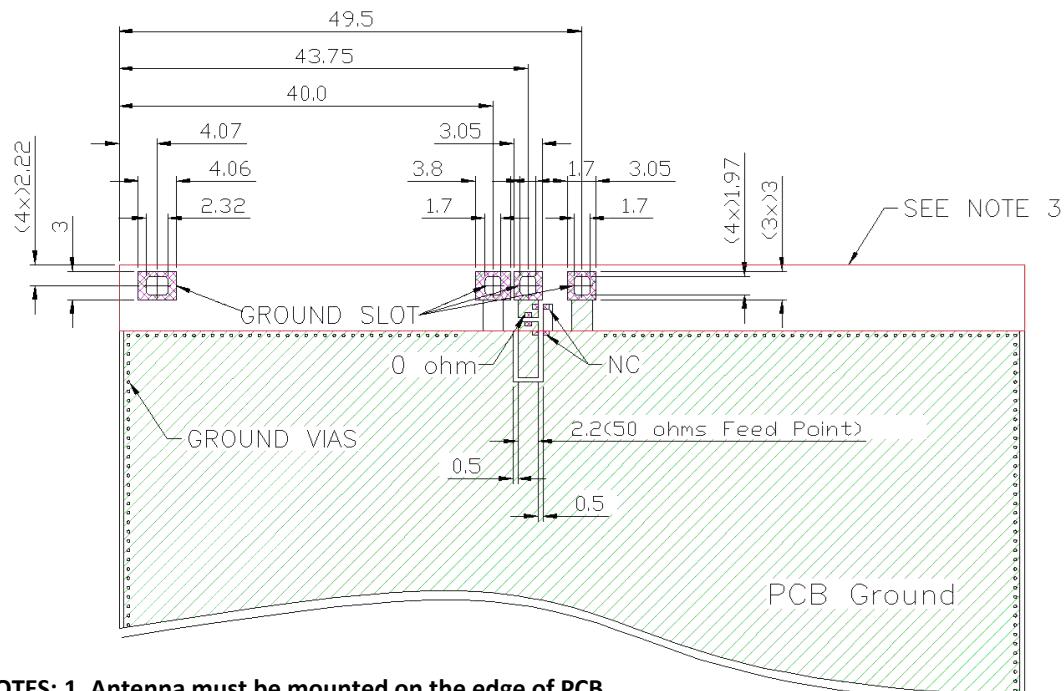


Elevation 1(XZ)



Data measured in free space and on reference ground plane of 91mm ground length and 150mm 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 –

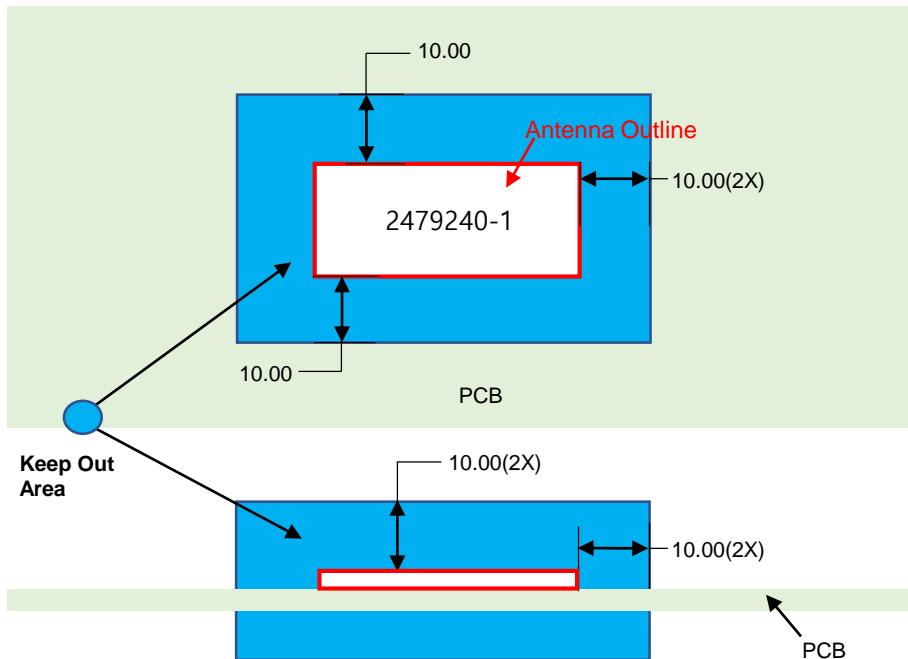
Dimensions: mm
Diagram is not to scale

4. Thickness is 1.0mm & dielectric is 4.6 for PCB.

5. Reference PCB Dimension(mm) - 151.0 x 105.0

6. For more information please call TE.

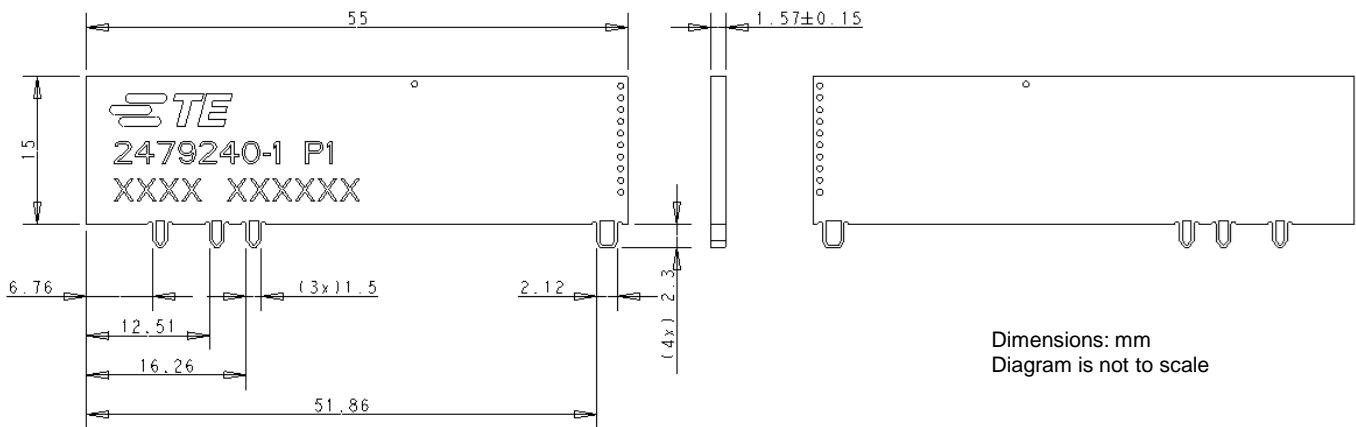
KEEP OUT AREA



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

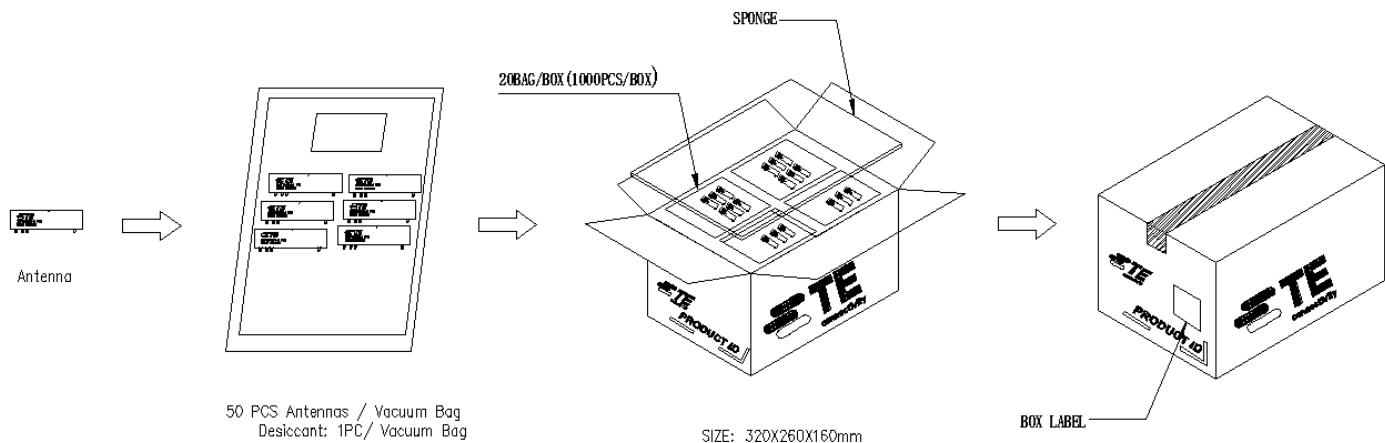


Dimensions: mm
 Diagram is not to scale

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Standard Antenna Solutions

PACKAGING



50 PCS Antennas / Vacuum Bag
Desiccant: 1PC / Vacuum Bag

SIZE: 320X260X160mm

BOX LABEL

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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07/2024