



Global 5G / LTE Low-Profile Wideband Antenna

Part Number: 2487514-1

FEATURES & BENEFITS

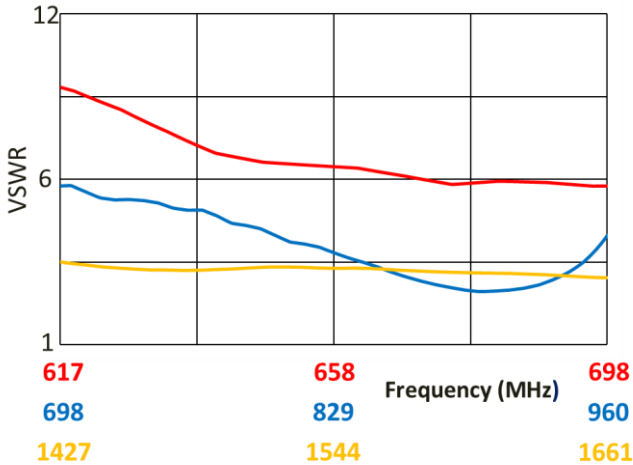
- Omnidirectional coverage
- Low-profile / height (50mm) for improved clearance
- Wideband coverage for sub-6 GHz 5G frequencies plus legacy 3G, 4G
- RoHS 2.0 Compliant, REACH Compliant

SPECIFICATIONS

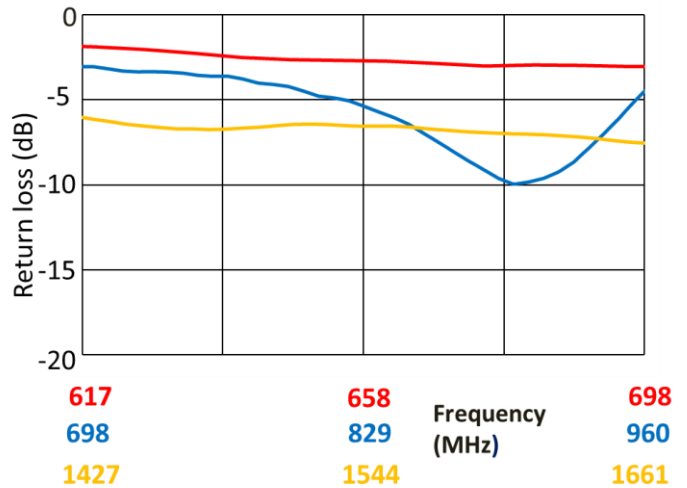
Frequency Range (MHz)	617-698	698-960	1427-1661	1695-2400	2484-2690	3300-4200	4400-5000
VSWR	< 9.4:1	< 5.8:1	< 3.1:1	< 2.7:1	< 1.8:1	< 3.5:1	< 4.3:1
Average Efficiency	39.47%	47.35%	68.30%	69.87%	71.15%	57.96%	55.52%
Peak Gain	-1.6dBi	0.2dBi	3.8dBi	4.2dBi	4.9dBi	4.8dBi	1.4dBi
Average Gain	-4.0dBi	-3.4dBi	-1.7dBi	-1.6dBi	-1.5dBi	-2.4dBi	-2.6dBi
Power Handling	5 Watt CW						
Feed Point Impedance	50 ohms						
Polarization	Linear						
Size	Length 50.0 mm($\pm 2mm$) x Diameter 8.0 mm ($\pm 0.2mm$) With SMA connector						
Weight	< 7 g						
Mounting	SMA plug						
Operating Temperature	-30 to +75°C						
Storage Temperature	-30 to +75°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 155 mm ground length and 55.0 mm width, application data might vary.							

PERFORMANCE

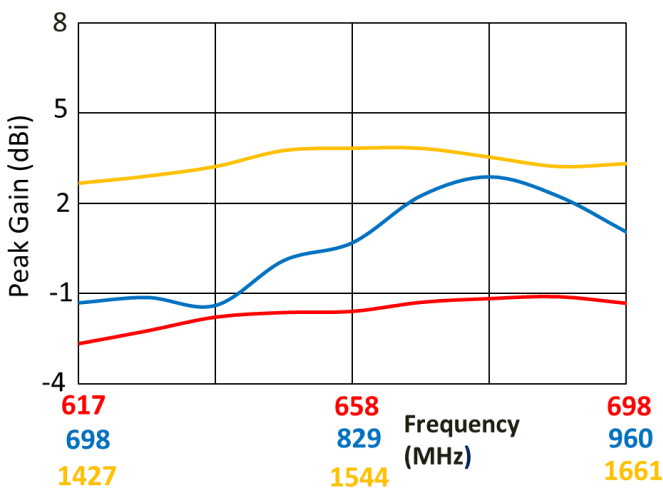
VSWR



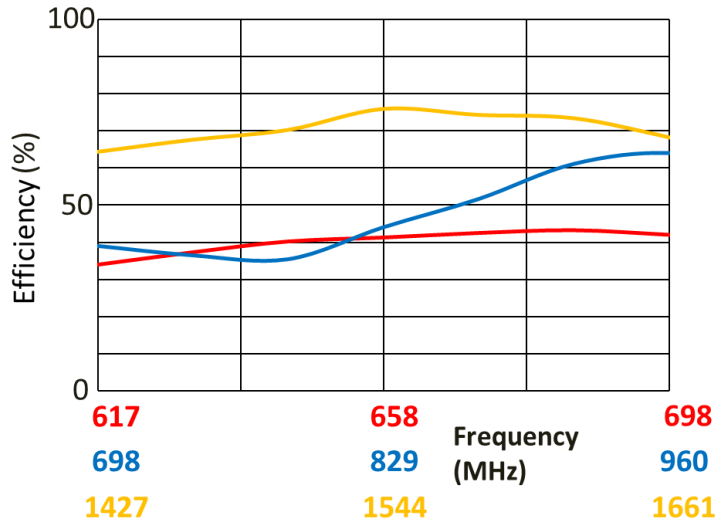
Return Loss



Peak Gain



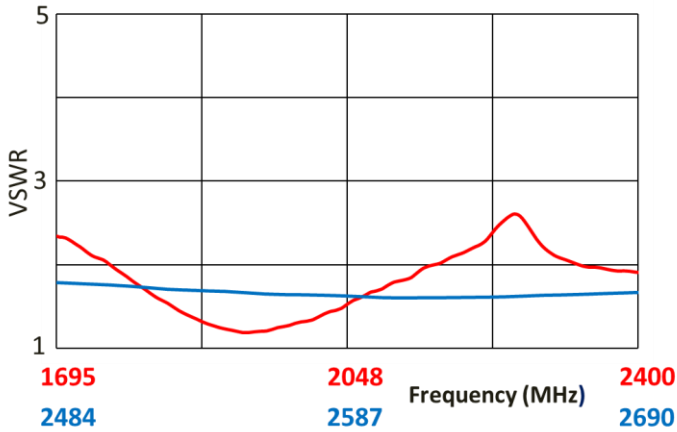
Efficiency



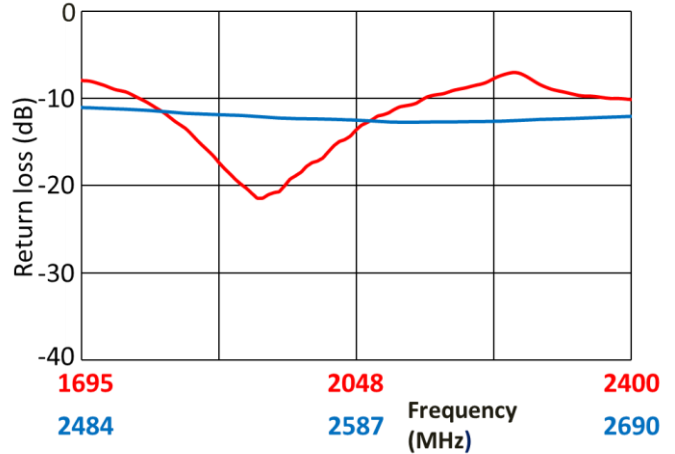
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PERFORMANCE

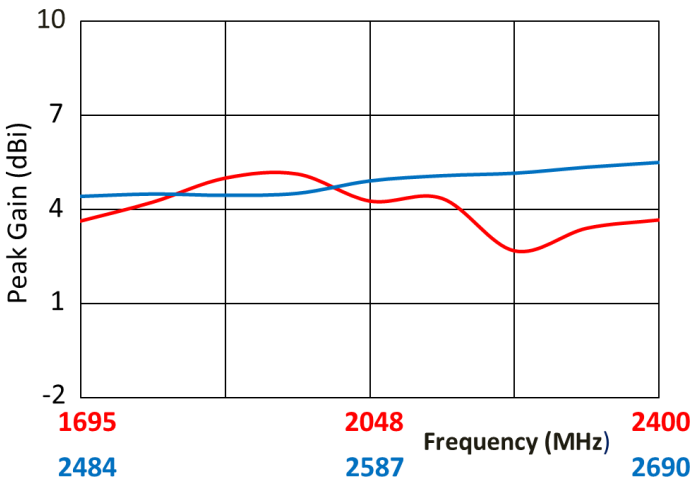
VSWR



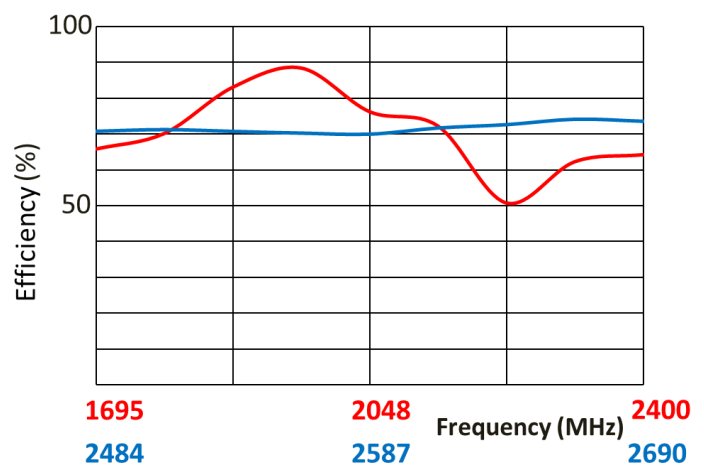
Return Loss



Peak Gain



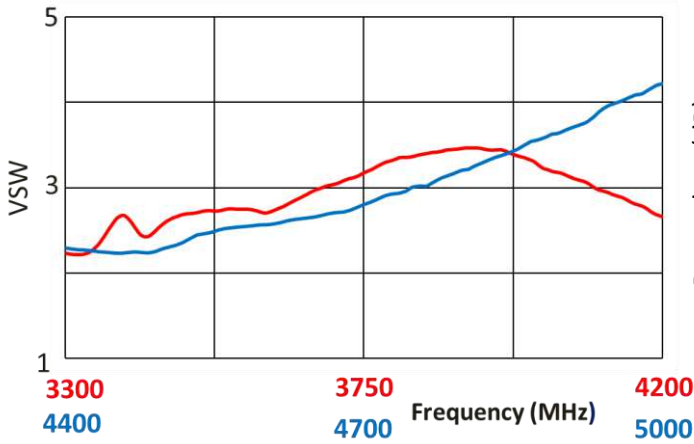
Efficiency



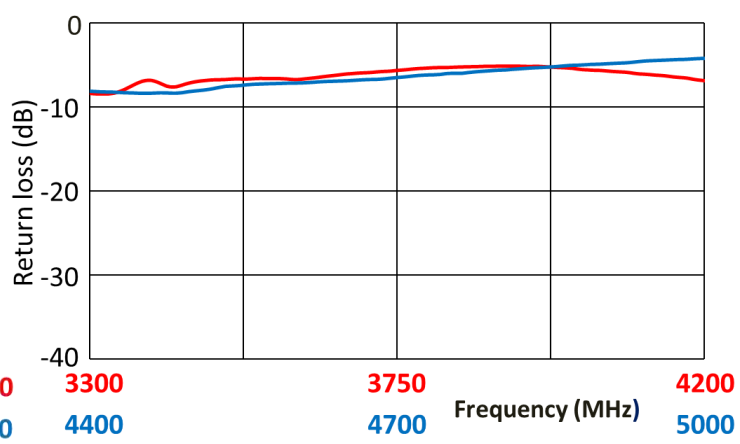
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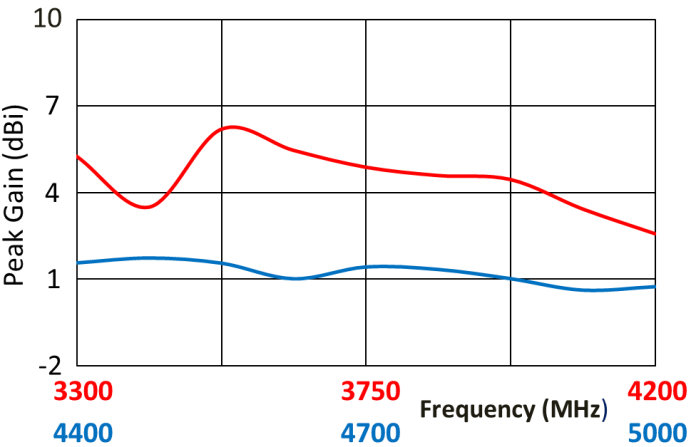
VSWR



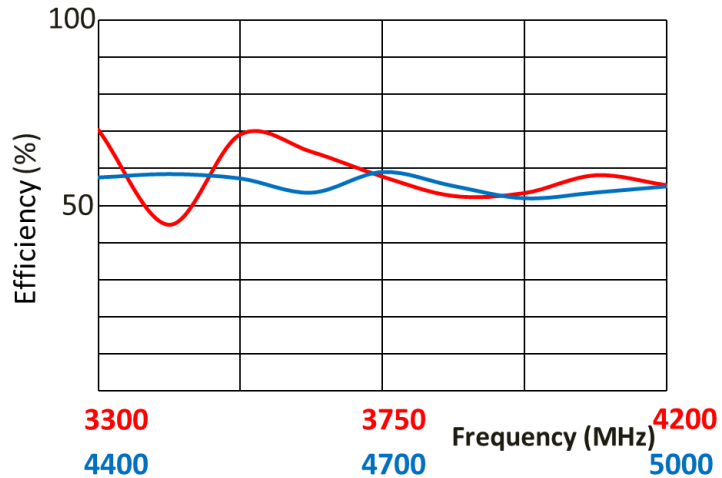
Return Loss



Peak Gain



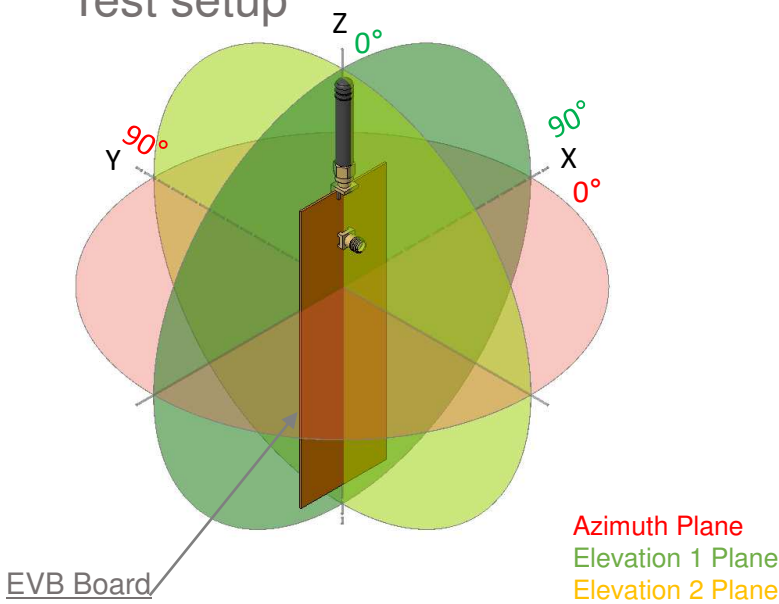
Efficiency



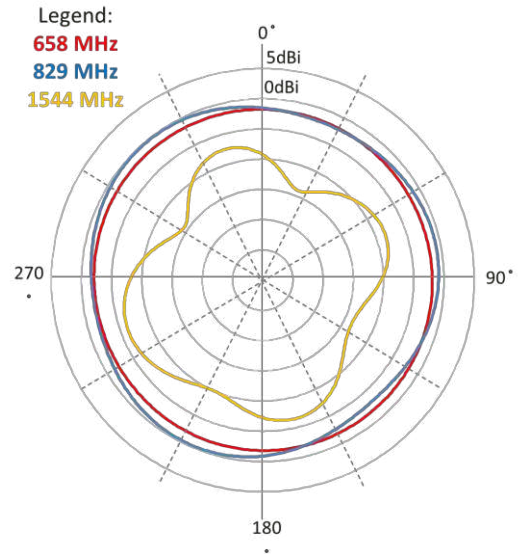
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RADIATION PATTERN

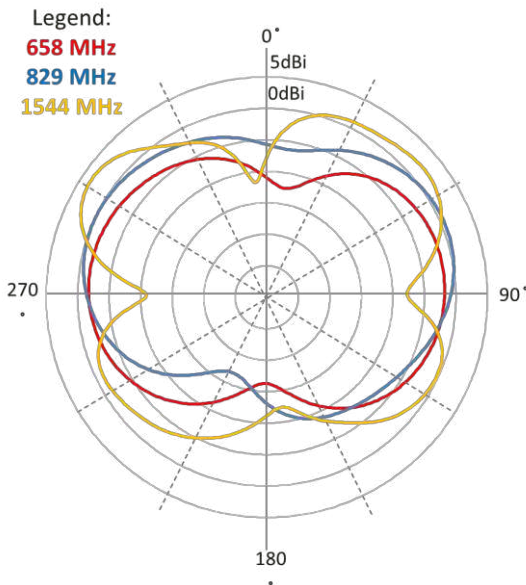
Test setup



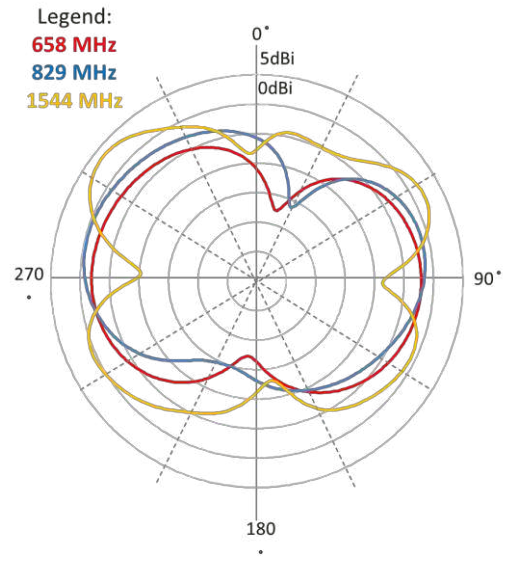
Azimuth(XY)



Elevation 1(XZ)



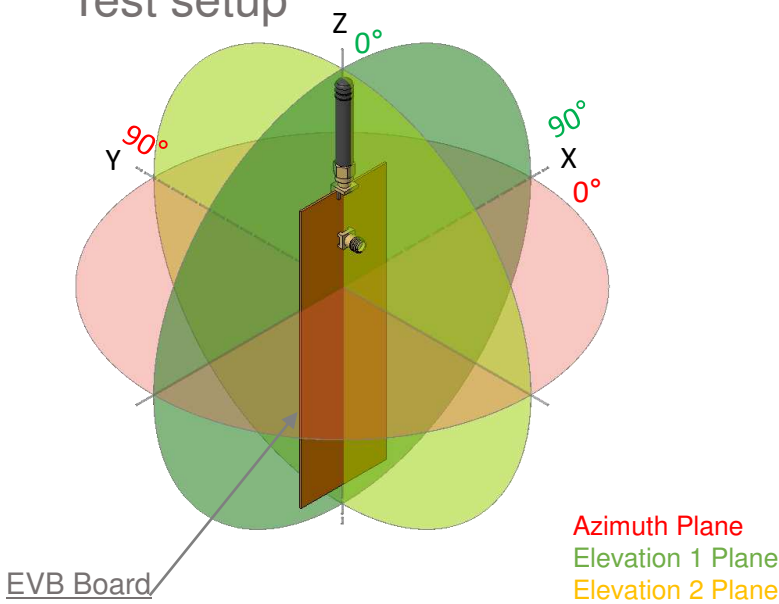
Elevation 2(YZ)



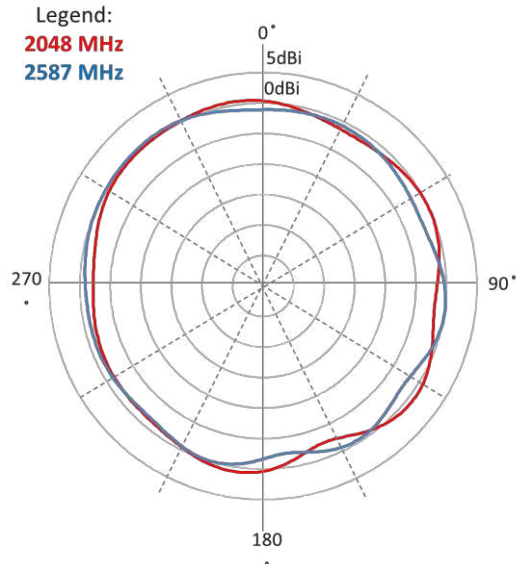
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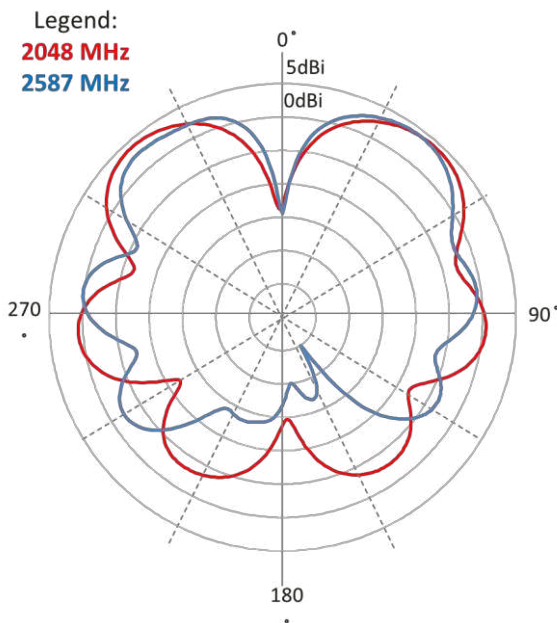
Test setup



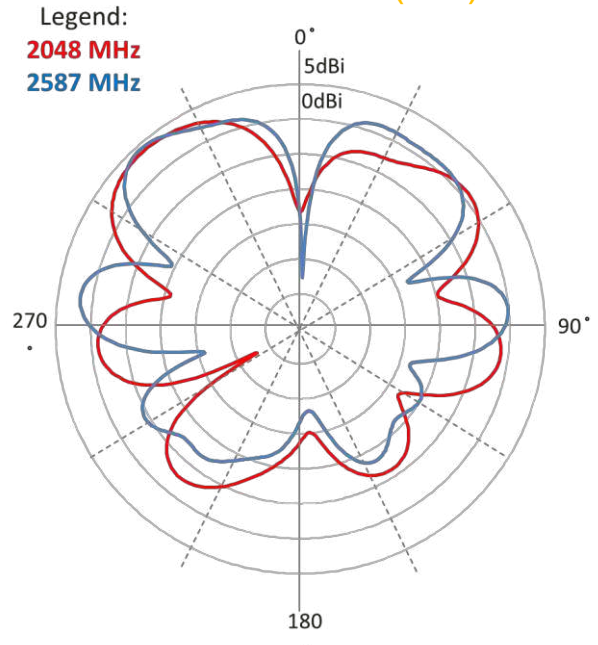
Azimuth(XY)



Elevation 1(XZ)



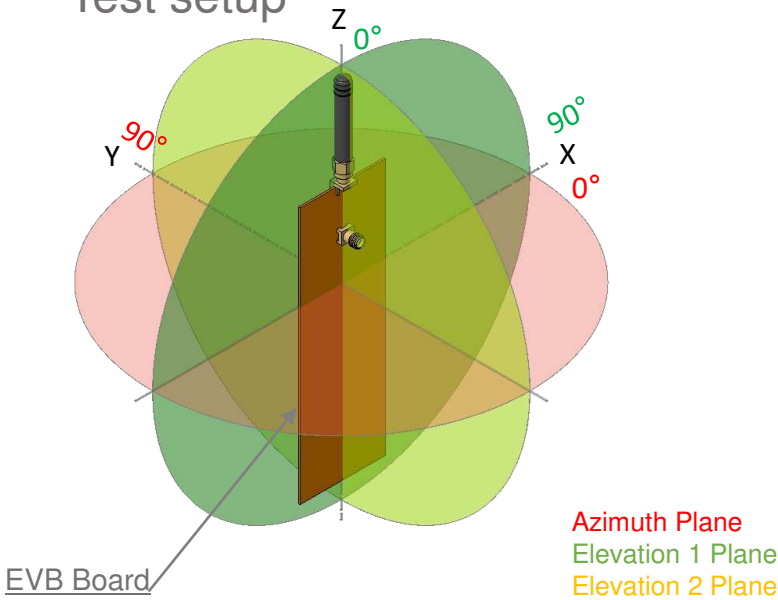
Elevation 2(YZ)



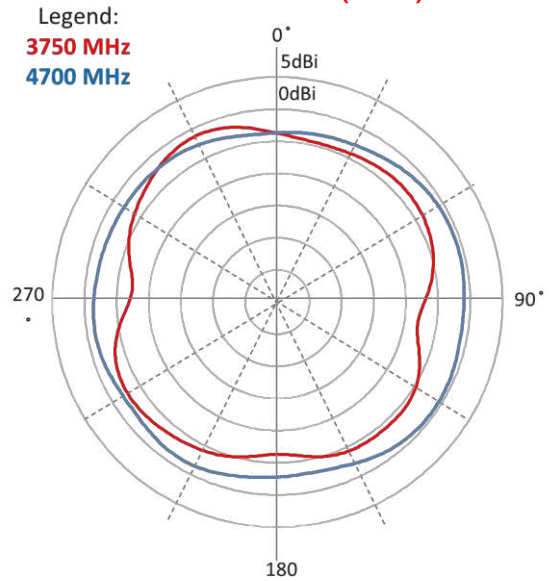
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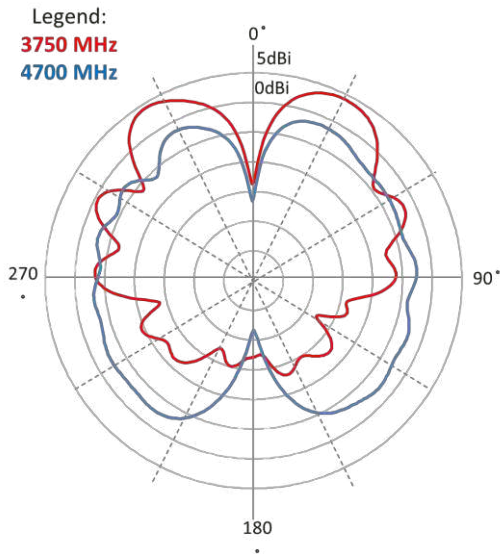
Test setup



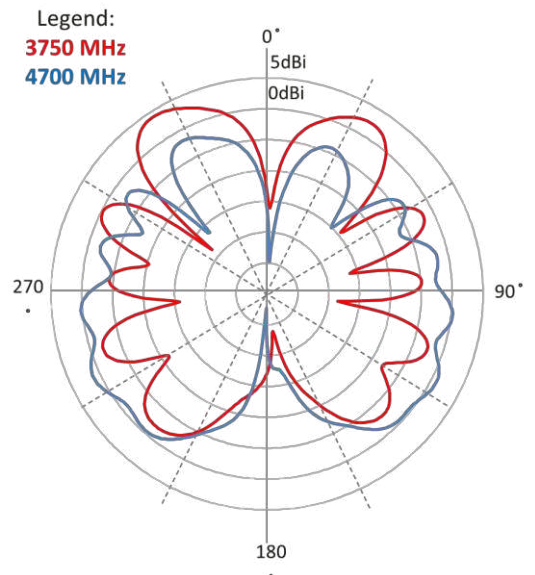
Azimuth(XY)



Elevation 1(XZ)

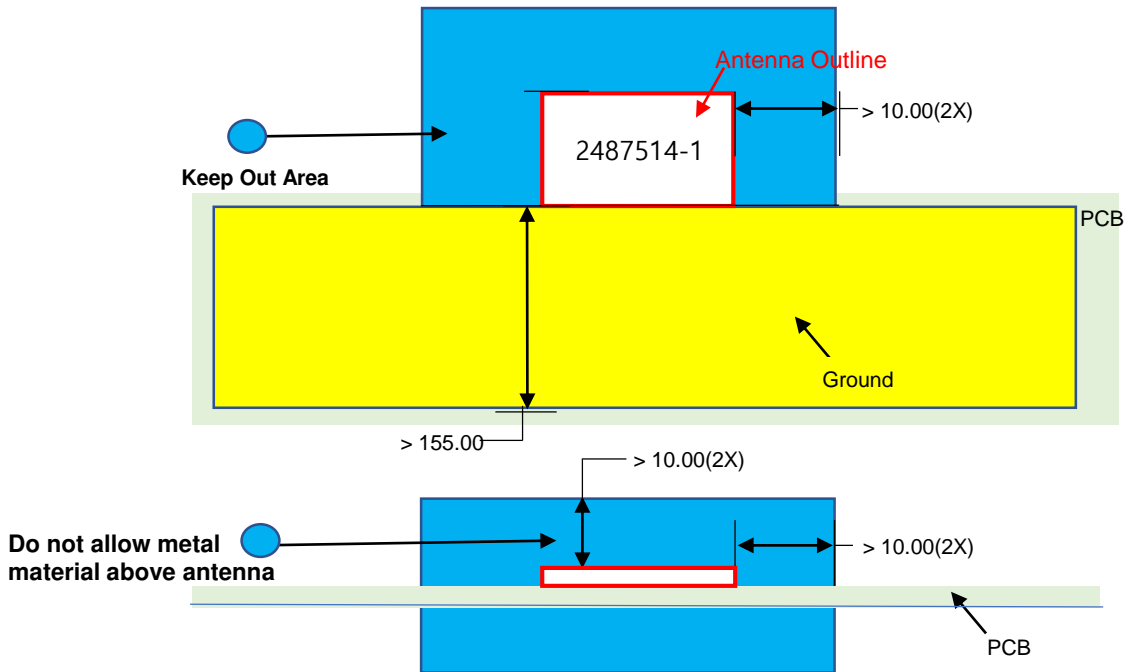


Elevation 2(YZ)



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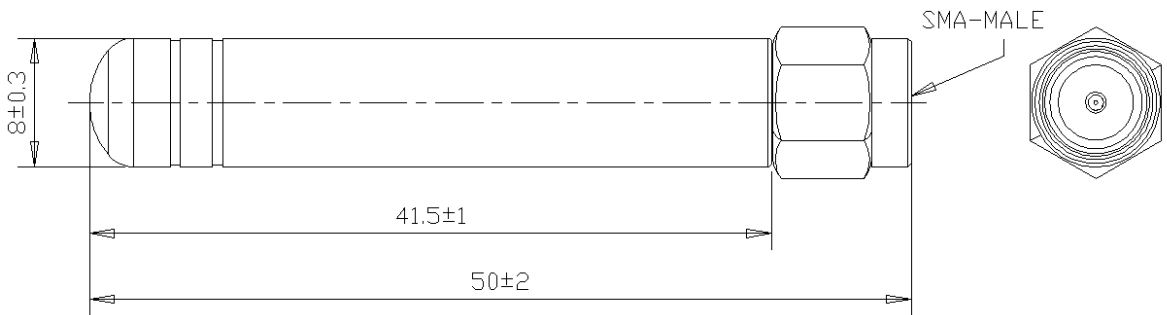
KEEP OUT AREA



- NOTES:
1. Antenna designed to be screw mounted on PCB.
 2. Bandwidth performance dependent on ground plane size/design suggested minimum ground plane length from ground feed is 155mm
 3. Area in blue above indicates Keep Out area.
 4. For more information, please call TE.

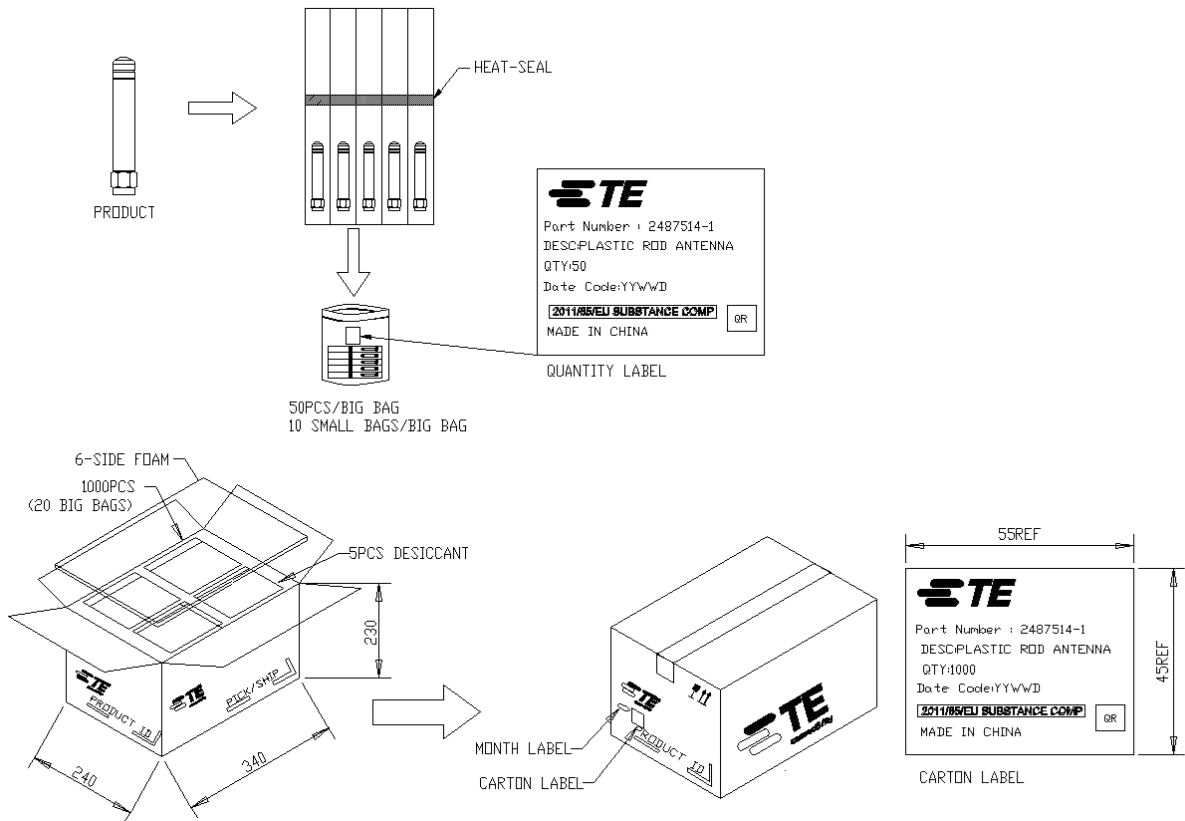
Dimensions: mm
Diagram is not to scale

DIMENSIONS



Dimensions: mm
Diagram is not to scale

PACKAGING



TE TECHNICAL SUPPORT CENTER

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- 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
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07/24 Original