Wi-Fi 6/ 6E TRIPLE BAND EMBEDDED ANTENNA

Part Numbers: 2108891-1

FEATURES & BENEFITS

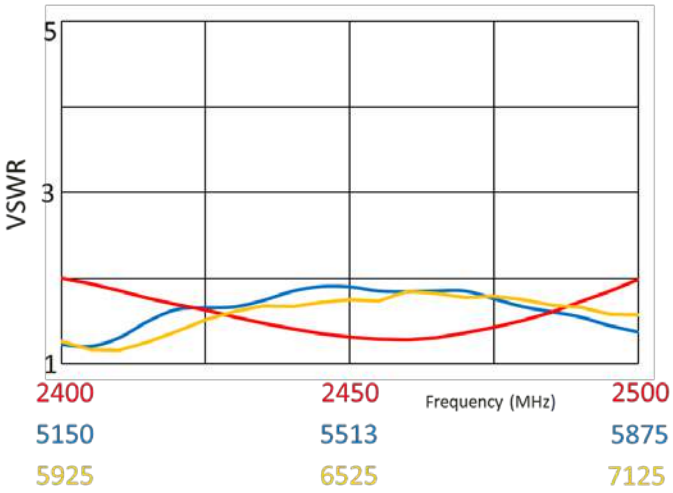
- WiFi 6, also including WiFi 6E new 6GHz band, Bluetooth, ZigBee
- Tab mounting with plated through holes
- Global Frequency coverage
- Minimal keep out zone requirement
- Performance dependent on ground plane size and design.

SPECIFICATIONS

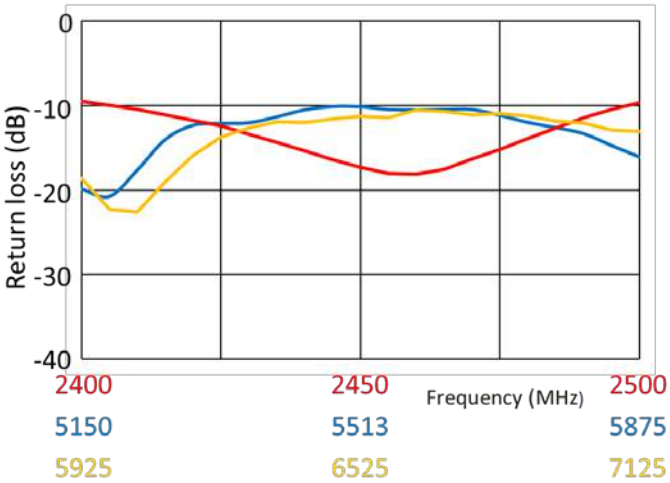
Frequency Range (MHz)	2400-2500	5150-5875	5925-7125
VSWR	< 2.0:1	< 2.0:1	< 2.0:1
Average Efficiency	60%	59%	62%
Peak Gain	1.3dBi	3.4dBi	4.3dBi
Average Gain	-2.2dBi	-2.3dBi	-2.2dBi
Power Handling	10 Watt cw		
Feed Point Impedance	50 ohms unbalanced		
Polarization	Linear		
Size	30.0 mm x 10.0 mm x 0.78 mm		
Weight	< 0.5 g		
Mounting	TAB mounting with plated through holes		
Operating Temperature	-40 to +85°C		
Storage Temperature	-40 to +85°C		
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 29.5 mm length and 29.0 mm width, application data might vary			

RF DATA

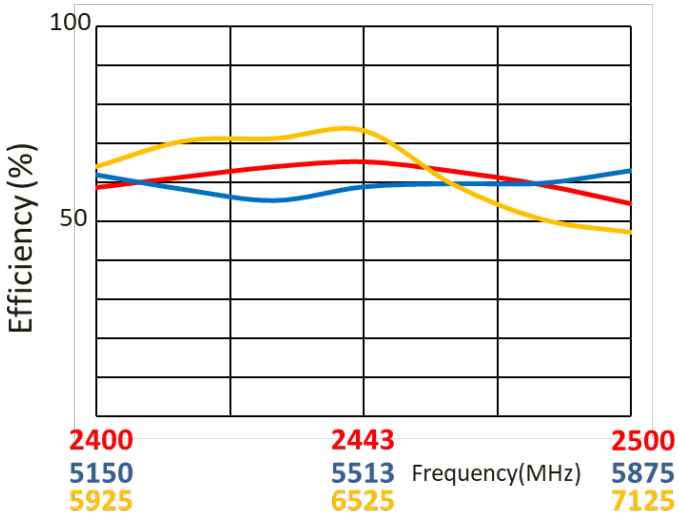
VSWR



Return Loss



Efficiency



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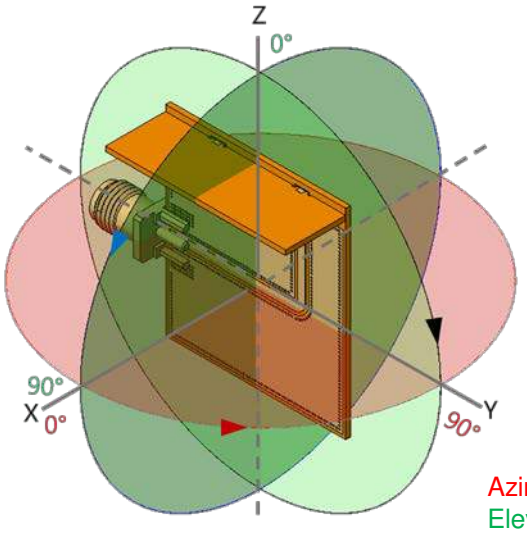
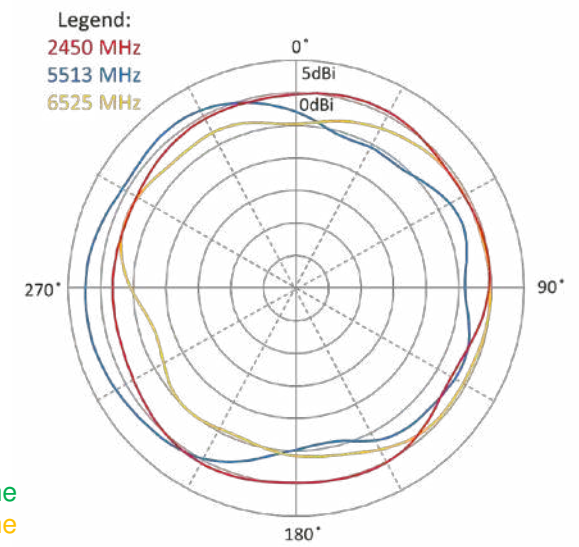
RADIATION PATTERN

Test setup

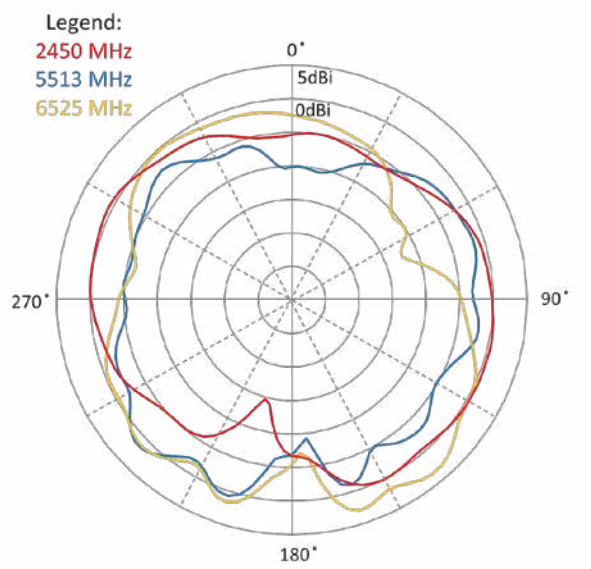


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

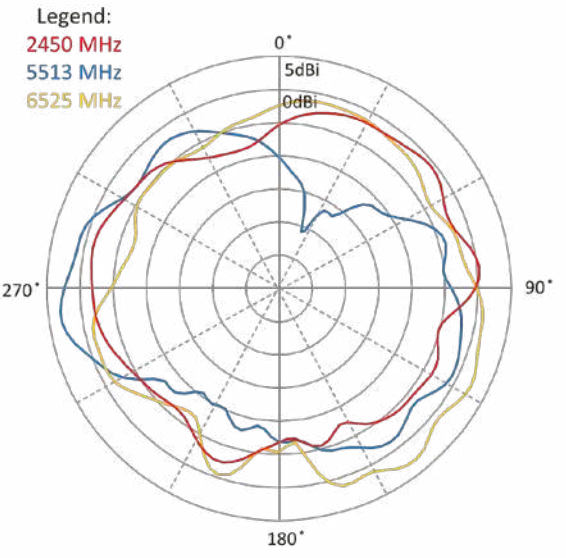
Azimuth



Elevation 1



Elevation 2



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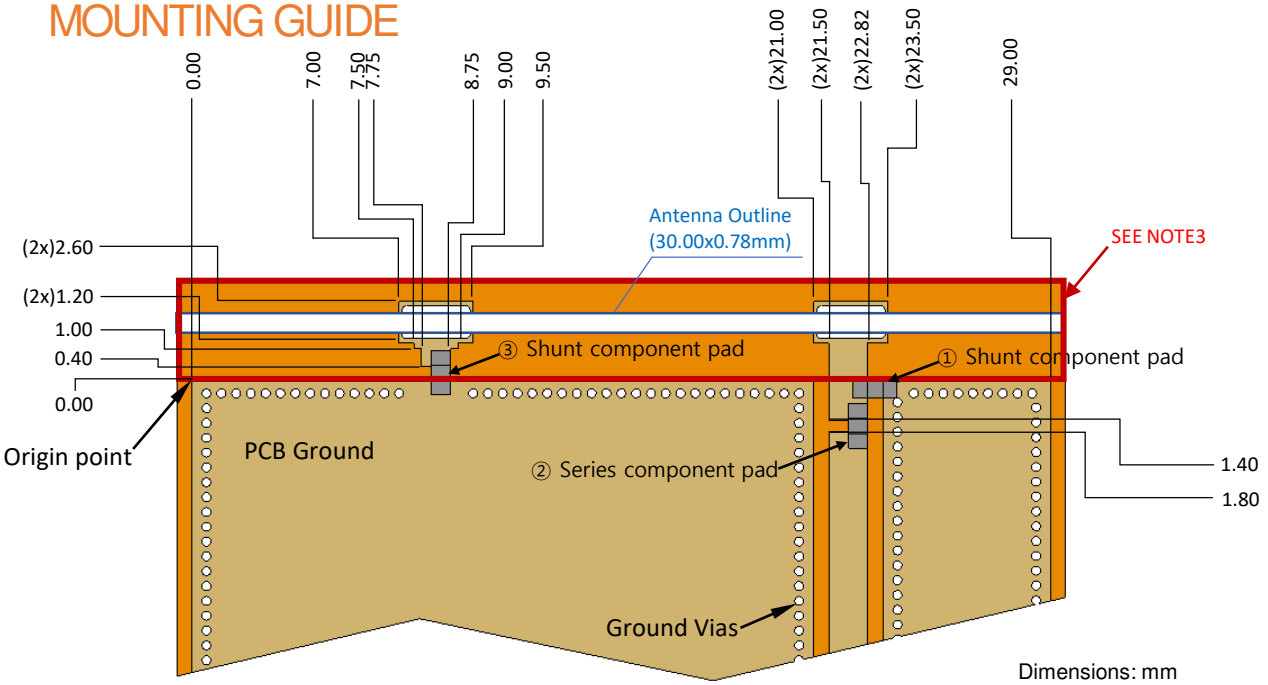
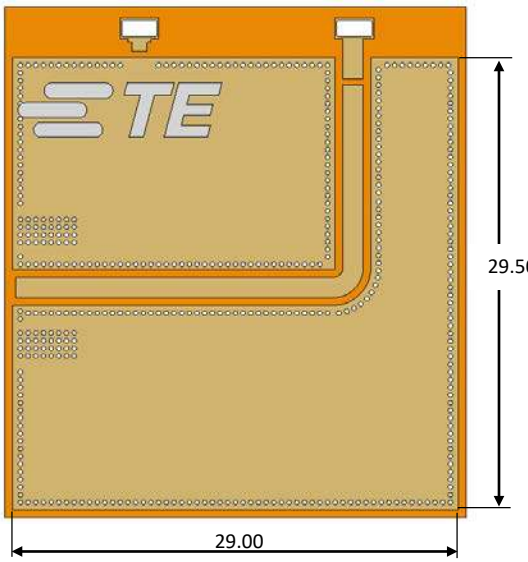
MOUNTING GUIDE



Dimensions: mm
Diagram is not to scale

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 NC, ②0Ω, ③2.2nH
6. Reference PCB Dimension(mm) – 30.00x33.30x0.78t



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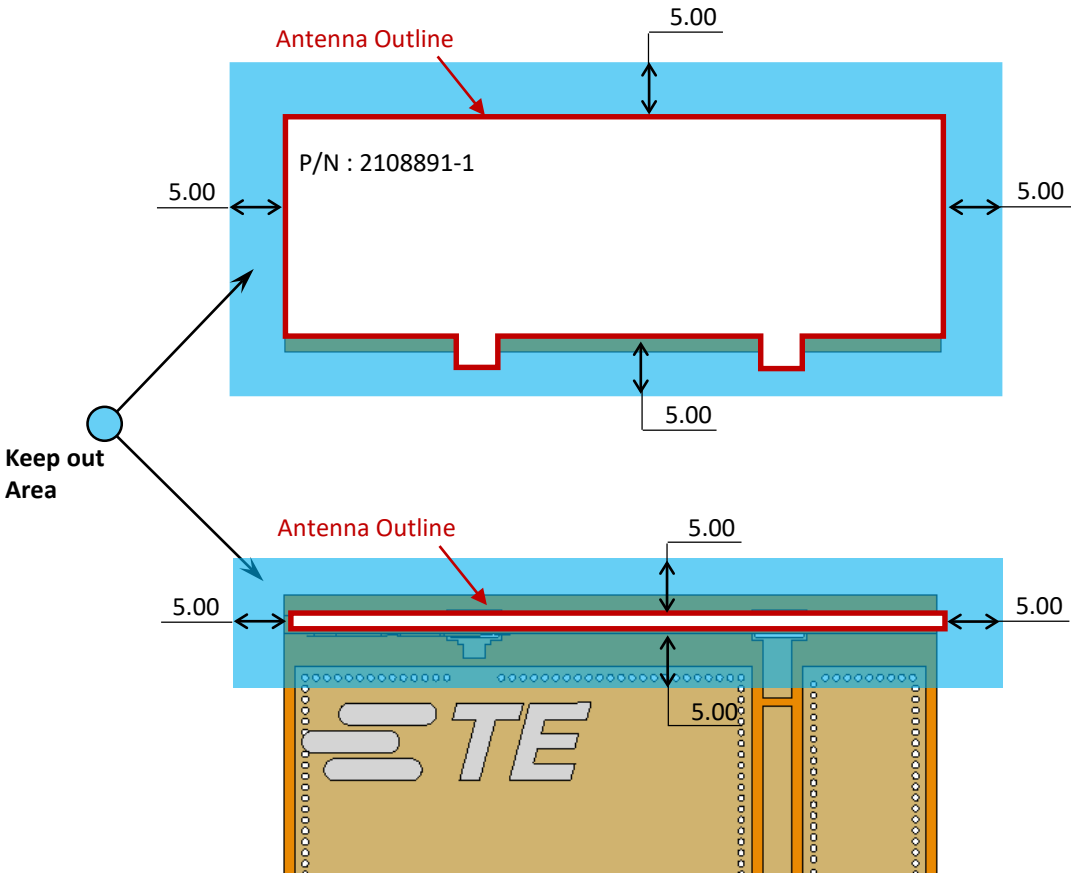
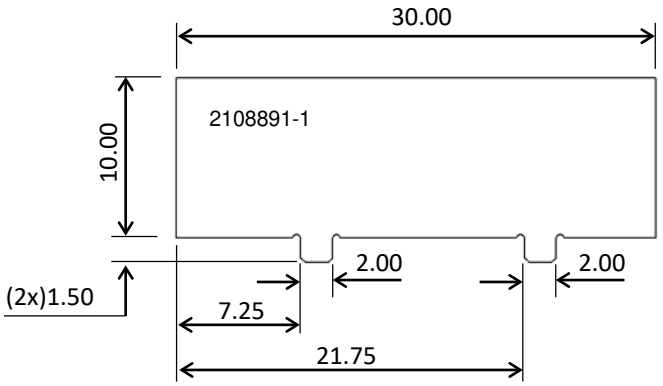
KEEP OUT AREA

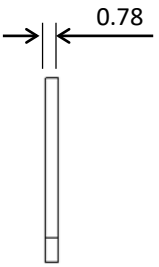


NOTES :1. Area in blue above indicates Keep Out Area.
2. For more information please call TE.

Dimensions: mm
Diagram is not to scale

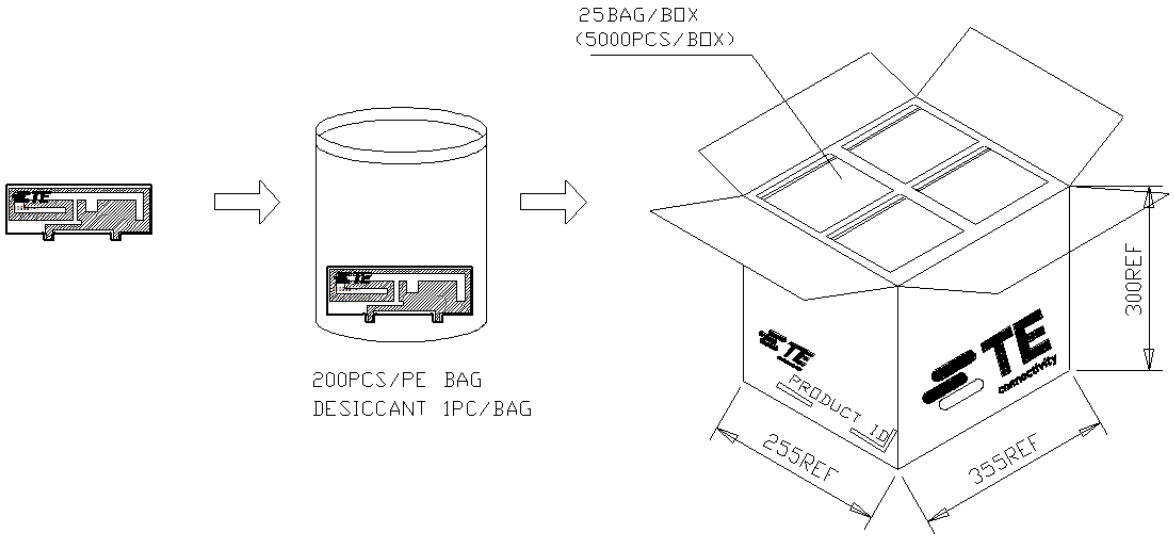
DIMENSIONS





Dimensions: mm
Diagram is not to scale

PACKAGING



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