



# 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.

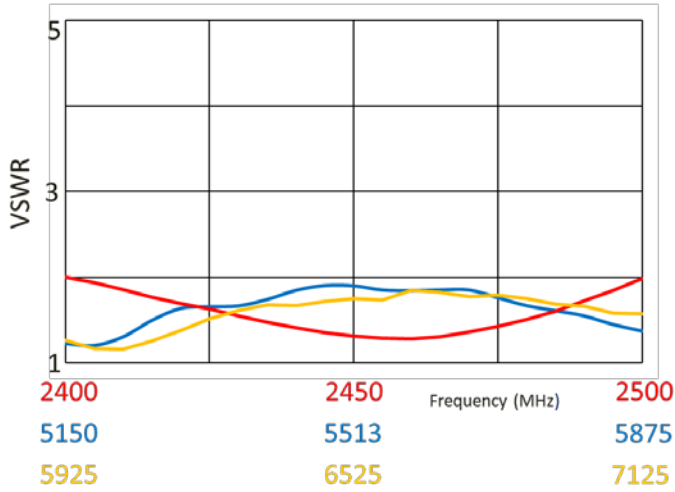
## SPECIFICATIONS

<b>Frequency Range (MHz)</b>	2400-2500	5150-5875	5925-7125
<b>VSWR</b>	< 2.0:1	< 2.0:1	< 2.0:1
<b>Average Efficiency</b>	60%	59%	62%
<b>Peak Gain</b>	1.3dBi	3.4dBi	4.3dBi
<b>Average Gain</b>	-2.2dBi	-2.3dBi	-2.2dBi
<b>Power Handling</b>	10 Watt cw		
<b>Feed Point Impedance</b>	50 ohms unbalanced		
<b>Polarization</b>	Linear		
<b>Size</b>	30.0 mm x 10.0 mm x 0.78 mm		
<b>Weight</b>	< 0.5 g		
<b>Mounting</b>	TAB mounting with plated through holes		
<b>Operating Temperature</b>	-40 to +85°C		
<b>Storage Temperature</b>	-40 to +85°C		
<b>Hazardous Materials</b>	A certificate of conformance is available from the product page on TE website.		

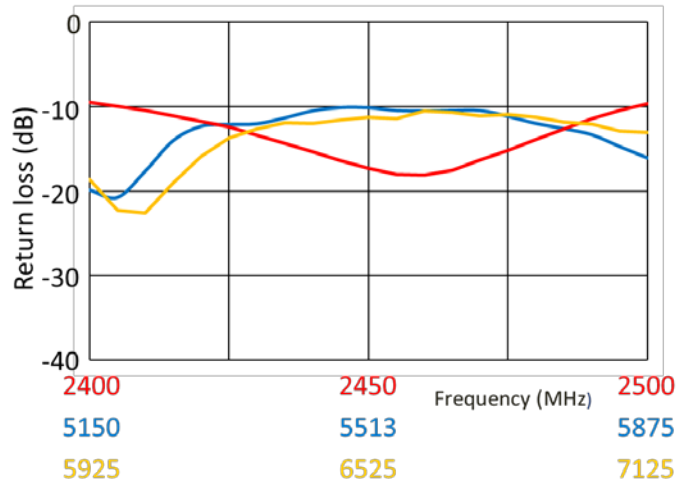
**Data measured in free space and on reference ground plane of 29.5 mm length and 29.0 mm width, application data might vary**

## RF DATA

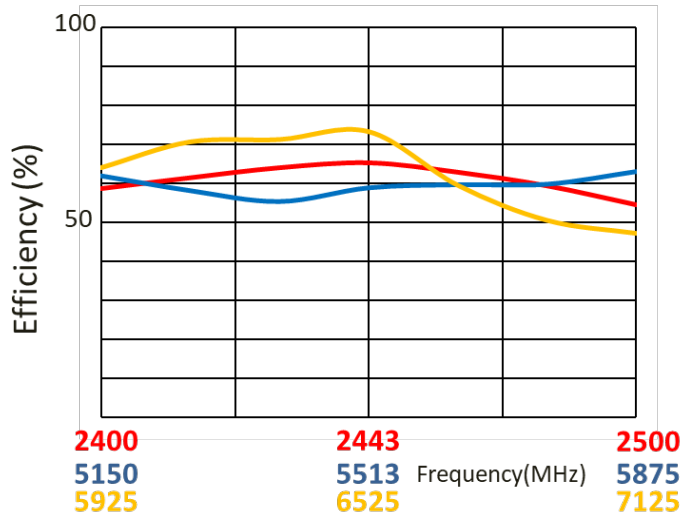
### VSWR



### Return Loss



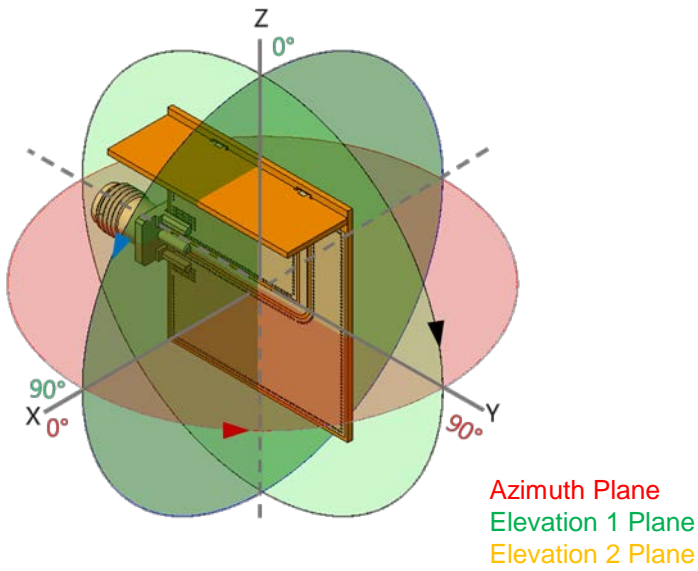
### Efficiency



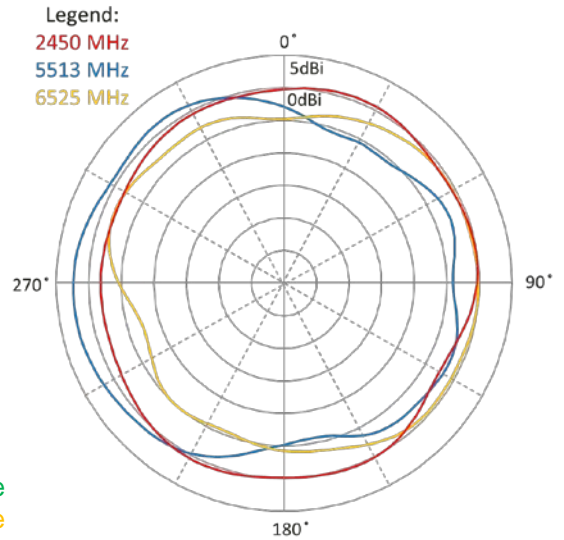
Data measured in free space and on reference ground plane of 29.5 mm length and 29.0 mm width, application data might vary

# RADIATION PATTERN

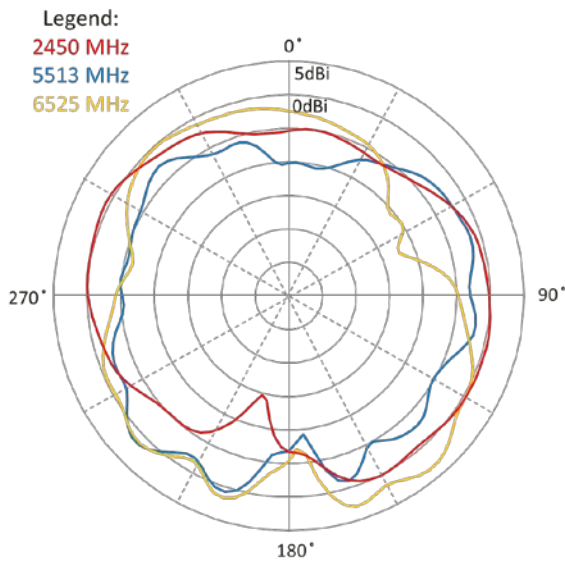
## Test setup



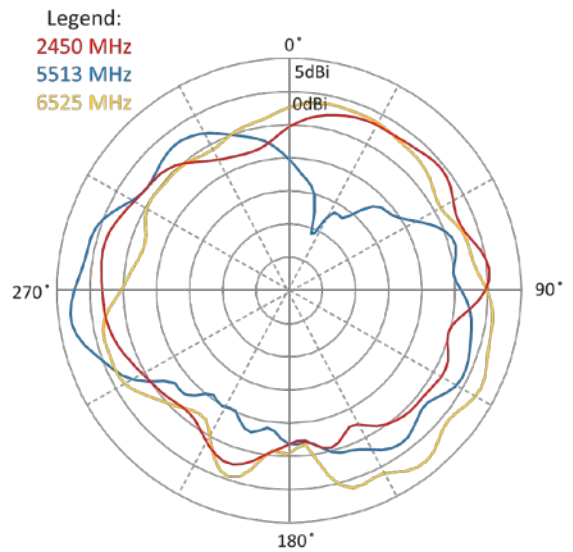
## Azimuth



## Elevation 1



## Elevation 2

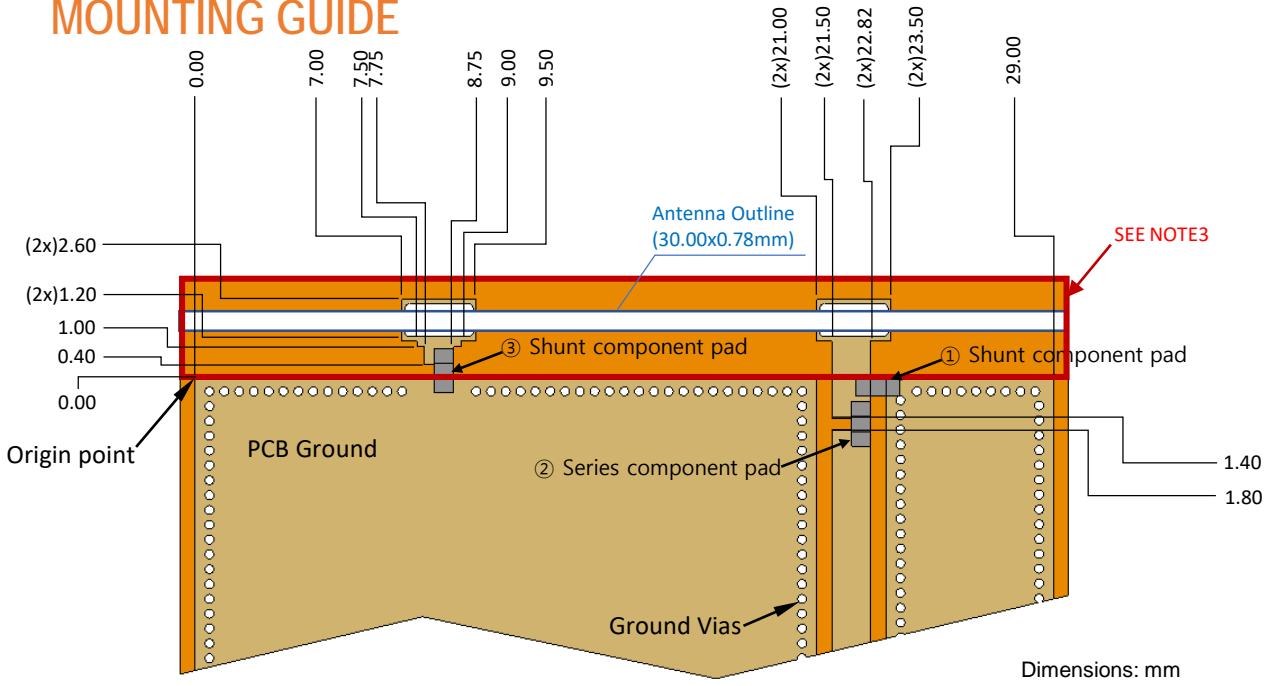


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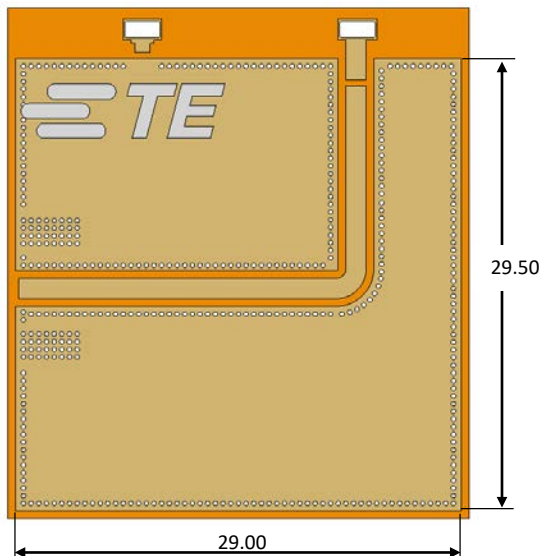
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## MOUNTING GUIDE



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

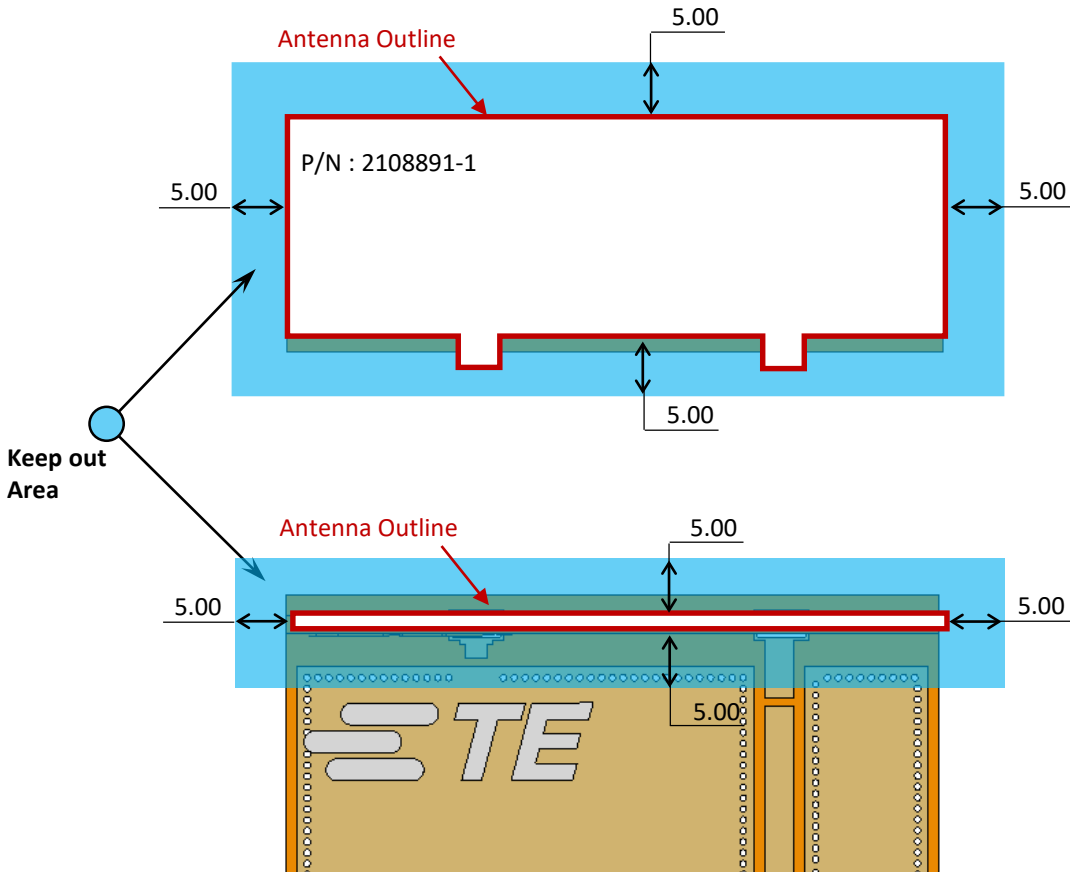
Dimensions: mm  
Diagram is not to scale



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Diagram is not to scale

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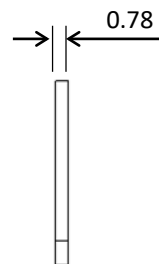
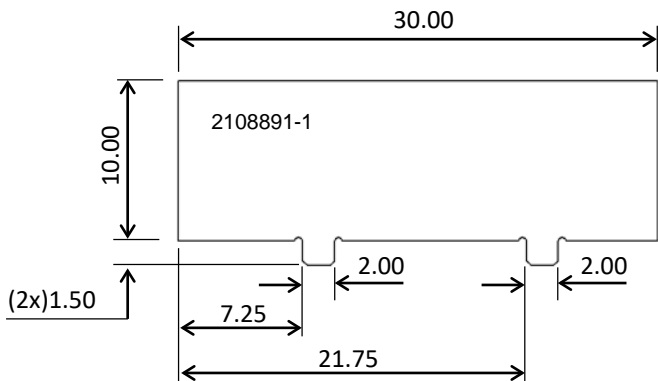
## KEEP OUT AREA



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

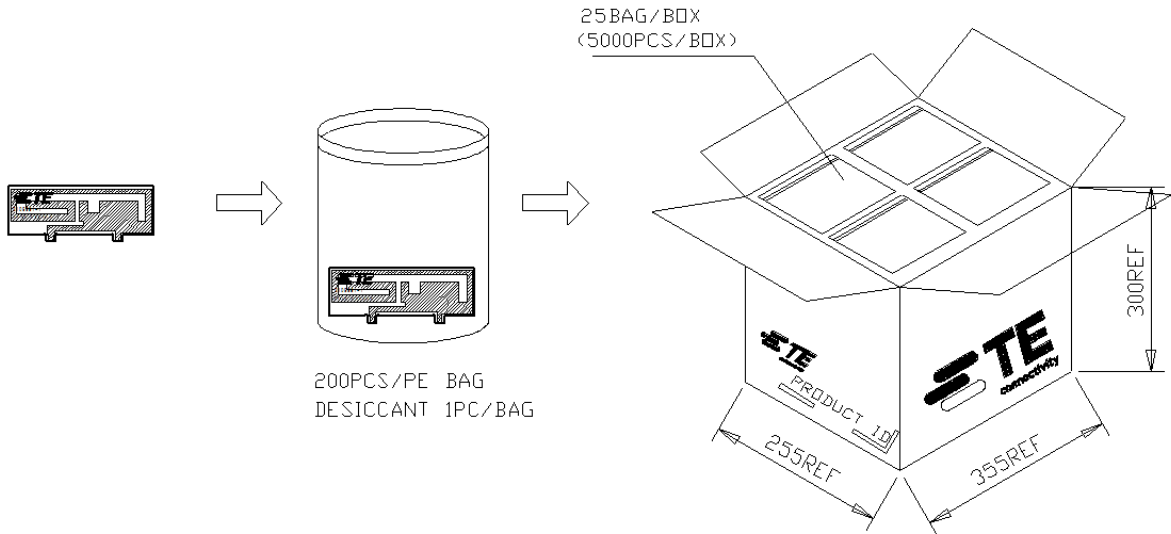


Dimensions: mm  
Diagram is not to scale

# Wi-Fi 6/ 6E TRIPLE BAND EMBEDDED ANTENNA

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## PACKAGING



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- Germany: +49 (0) 6251-133-1999
- UK: +44 (0) 800-267666
- France: +33 (0) 1-3420-8686
- Netherlands: +31 (0) 73-6246-999
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For phone numbers in other countries, go to [te.com/support-center](https://www.te.com/support-center)

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12/2020