

824-960 & 1710-1990MHz Quad Band Antenna

(US Dual and EU Dual Band)

Part Numbers: 2108788-1, 2108788-2

FEATURES & BENEFITS

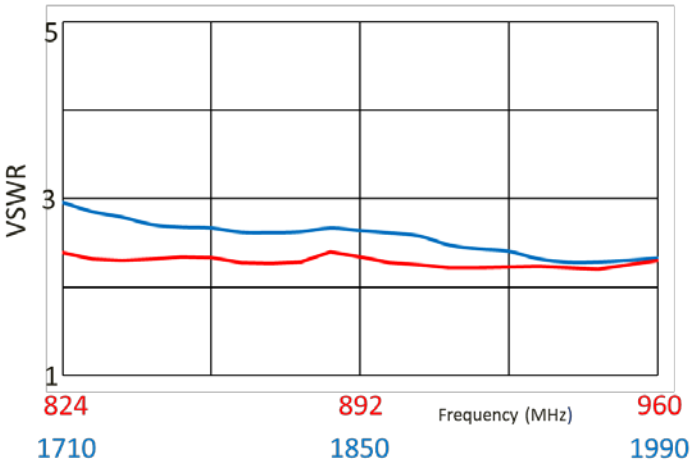
- Omnidirectional coverage
- On-board SMD PCB antenna
- Quad Band coverage for US & EU dual band coverage
- Bandwidth and performance is dependent on ground plane size/ design suggested Minimum ground plane length from antenna feed is 100.0 mm

SPECIFICATIONS

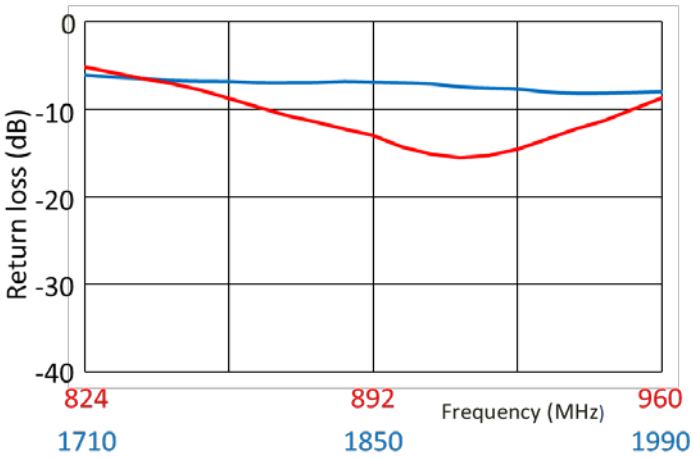
Frequency Range (MHz)	824-960	1710-1990
VSWR	< 2.4:1	< 3.0:1
Average Efficiency	56%	51%
Peak Gain	0.3dBi	1.2dBi
Average Gain	-2.6dBi	-2.9dBi
Power Handling	10 Watt cw	
Feed Point Impedance	50 ohms unbalanced	
Polarization	Linear	
Size	37.59 x 11.44 x 0.78	
Weight	< 0.6 g	
Mounting	Surface mount	
Operating Temperature	-40 to +85°C	
Storage Temperature	-40 to +85°C	
Packaging Specification	Bag & Box / Tape & Reel	
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 100mm length and 56.0mm width, application data might vary		

RF DATA

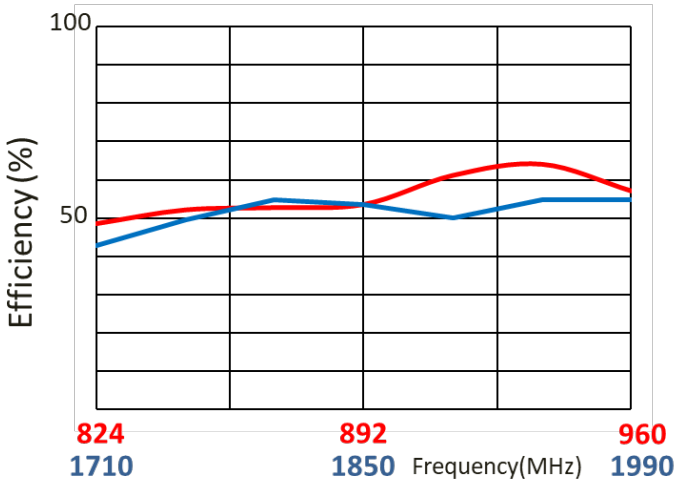
VSWR



Return Loss

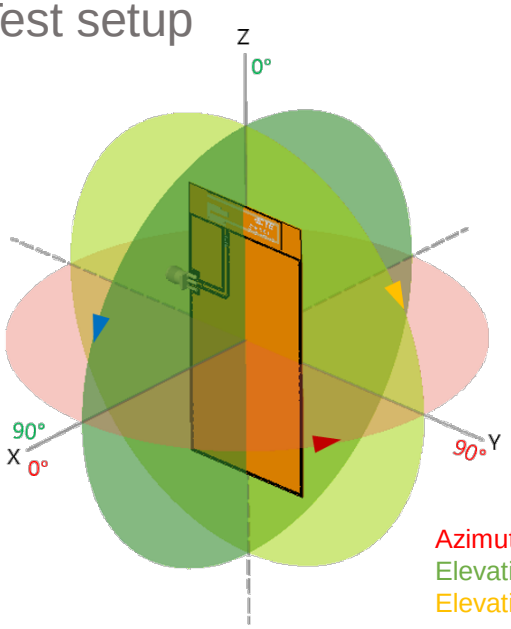


Efficiency



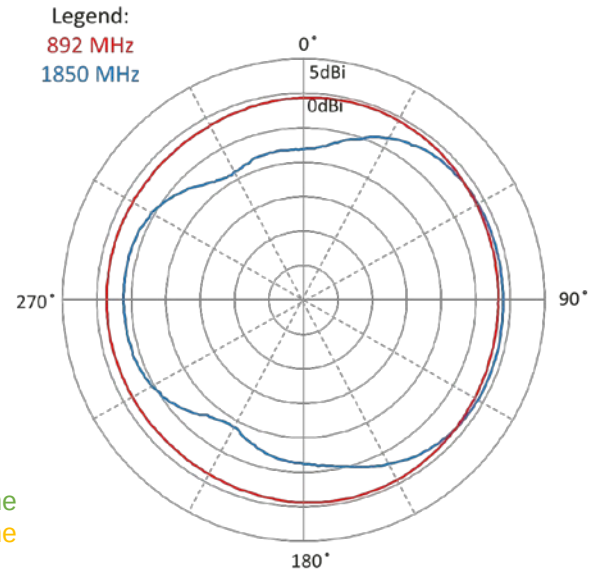
RADIATION PATTERN

Test setup

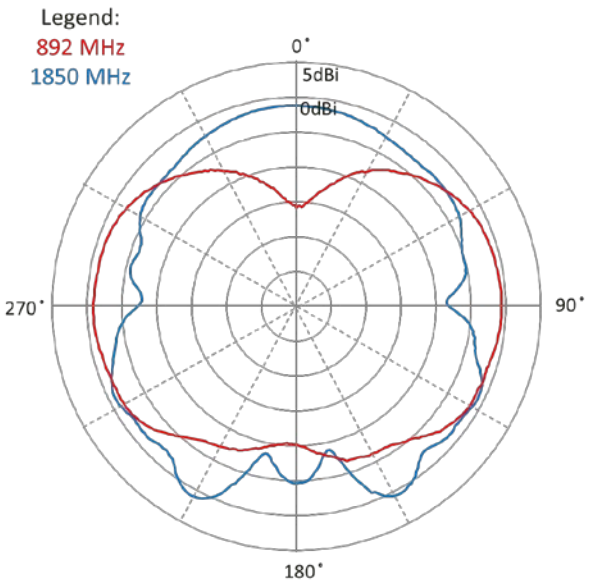


Azimuth Plane
Elevation 1 Plane
Elevation 2 Plane

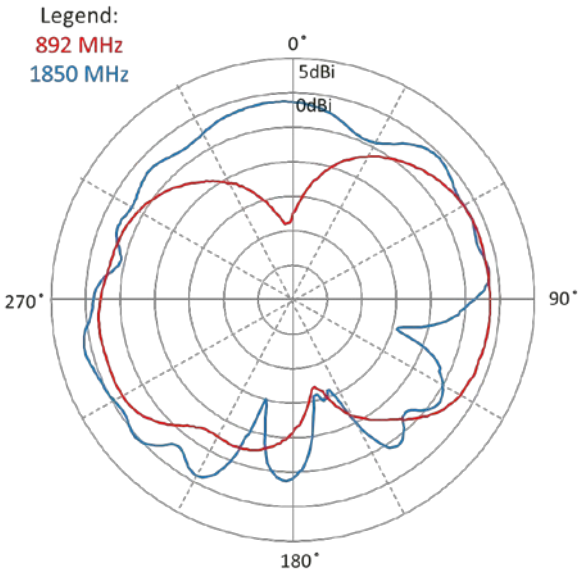
Azimuth



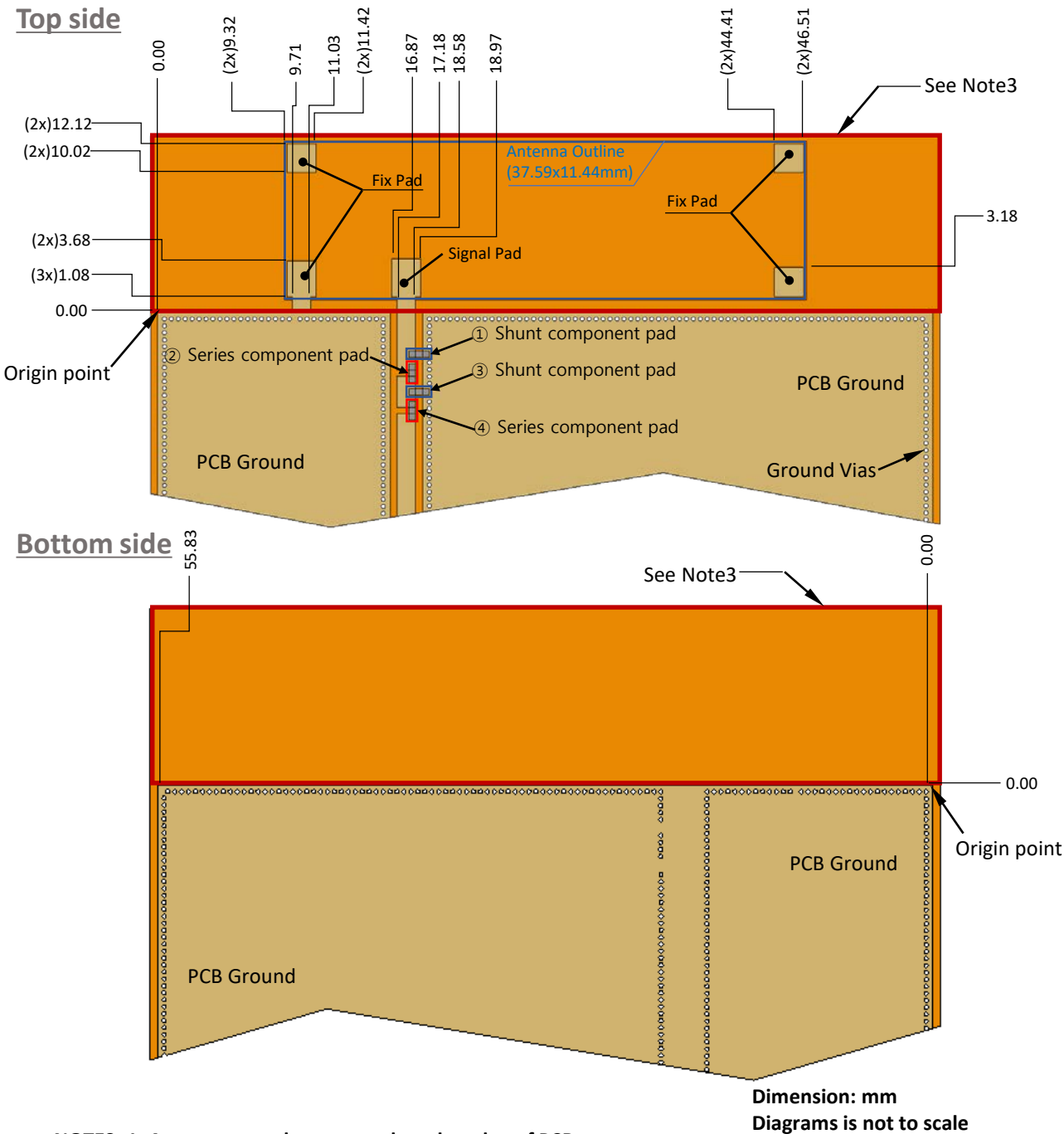
Elevation 1



Elevation 2



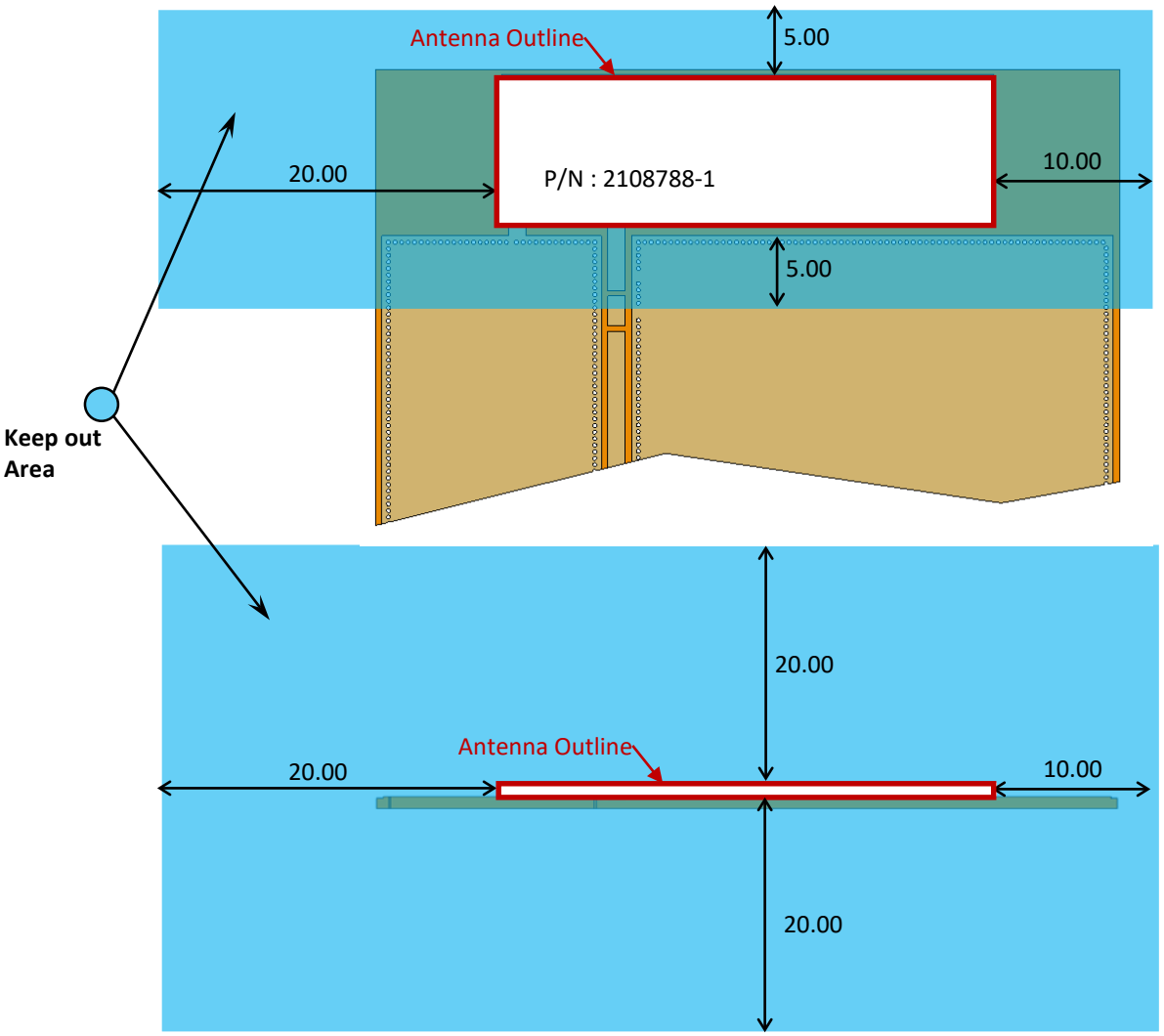
MOUNTING GUIDE



Dimension: mm
Diagrams is not to scale

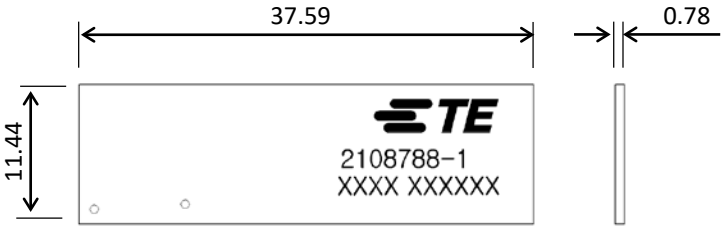
NOTES: 1. Antenna must be mounted on the edge of PCB.
2. NC = Non connection (mechanical mounting pads).
3. No copper allowed in designated area on all PCB layers –
4. For more information please call TE.
5. Measured with below matching circuit condition.
① 1.2pF, ②2.2pF, ③22nH, ④3.3nH
6. Reference PCB Dimension(mm) – 56.83x112.70x0.78t

KEEP OUT AREA



Dimension: mm
Diagrams is not to scale

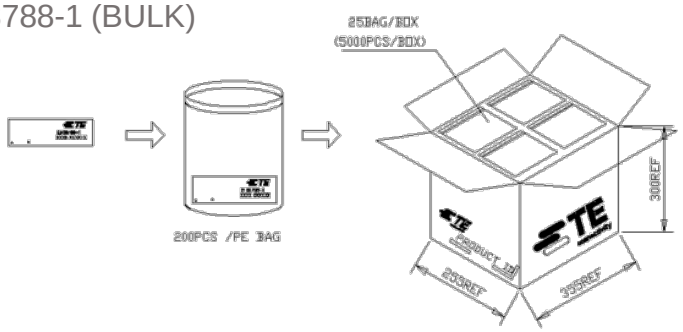
DIMENSIONS



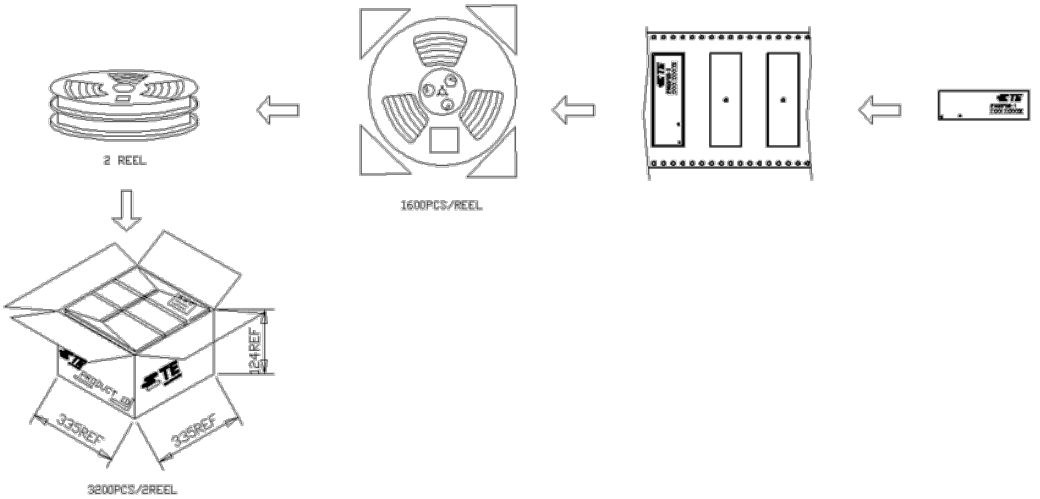
Dimension: mm
Diagrams is not to scale

PACKAGING

2108788-1 (BULK)



2108788-2 (TAPE & REEL)



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