

824 -960 & 1710 -2170 MHz Penta Band Antenna (UMTS, US Dual, EU Dual, and WCDMA)

Part Number: 1513317-1

Product Facts

- This small embedded antenna provides the most reliable easy-to-use, and adjustment-free antenna technology for handling during assembly and implementation by developers.
- RoHS compliant

Recommendations

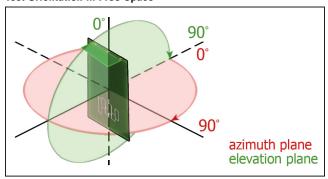
- Minimum or no matching circuits required.
- Bandwidth and performance is dependent on ground plane size. Suggested minimum ground plane length from the antenna feed is 100 mm.



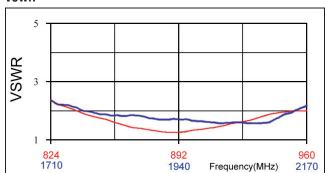
Specifications

-	
Frequency Range (MHz)	824 –960; 1710 –2170
Peak Gain	+ 3 dBi
VSWR	< 3.0:1
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Power Handling	10 Watt cw
Feed Point Impedance	50 Ohms unbalanced
Size	49.90 mm x 20.27 mm x 1.58mm
Weight	< 2.9 g.
Mounting	Tab mounted with plated through holes. See page 2
Keep Out Area	See diagram on page 2

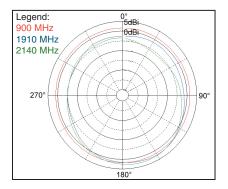
Test Orientation in Free Space



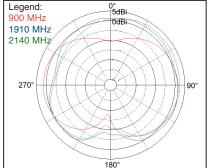
VSWR



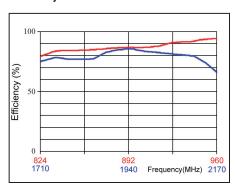
Azimuth



Elevation



Efficiency



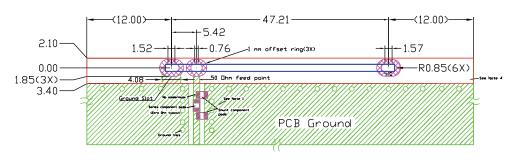
www.te.com

Antenna Solutions

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Mounting Guide



Dimensions: mm Diagram is not to scale

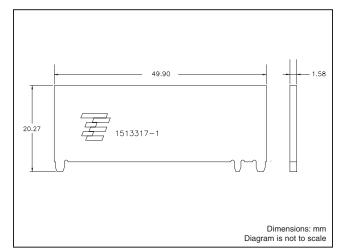
NOTES:

- 1. Suggested matching component pads.
- 2. Antenna must be mounted on the edge of PCB.
- 3. NC = No connection (mechanical mounting pads).
- 4. No copper allowed in designated area on all PCB layers -
- 5. For more information please call TE.

Keep Out Area

-5.00(2X) 10.00(2X) PCB Ground -5.00 **Keep Out** Area -10.00(2X) 1513317-1 PCB Ground 5.00-Dimensions: mm Diagram is not to scale

Approx. Dimensions



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Consult TE for the latest dimensions and design specifications

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