

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

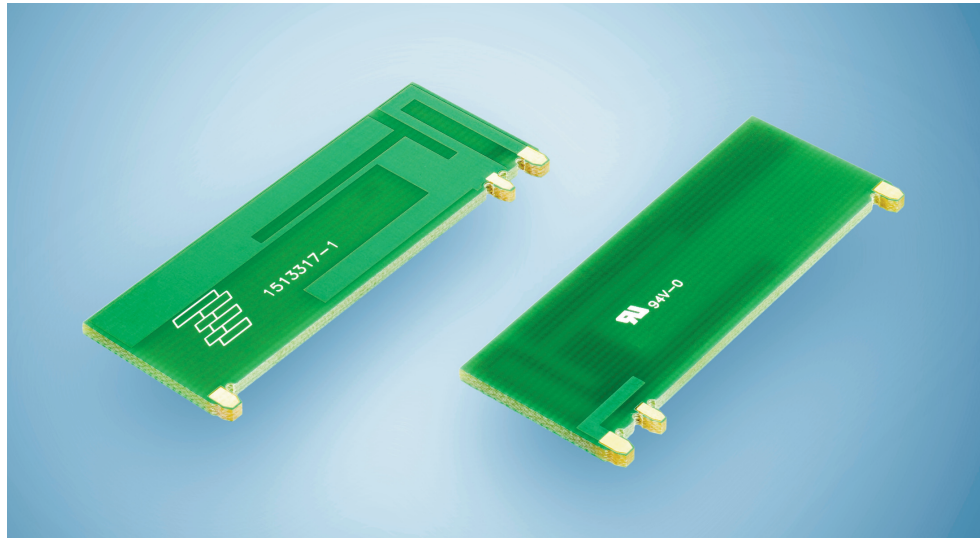
**Part Number: 1513317-1**

**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**

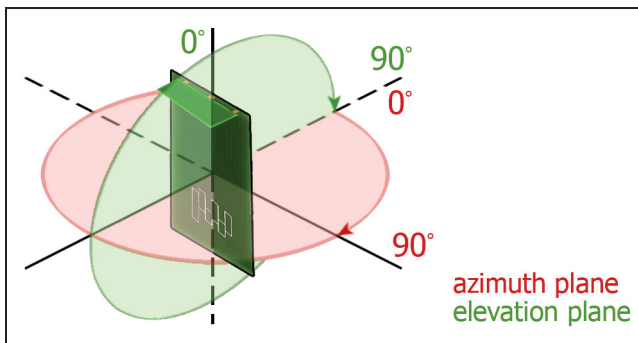
- Minimum or no matching circuits required.
- Bandwidth and performance is dependent on ground plane size. Suggested minimum ground plane length from the antenna feed is 100 mm.



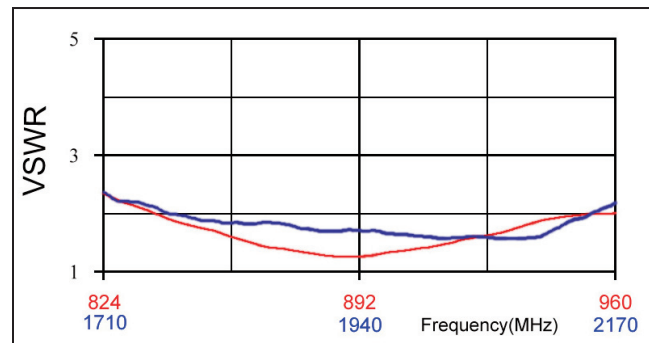
**Specifications**

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

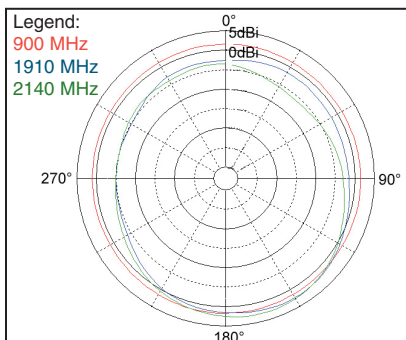
**Test Orientation in Free Space**



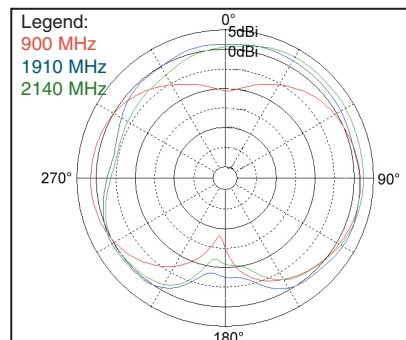
**VSWR**



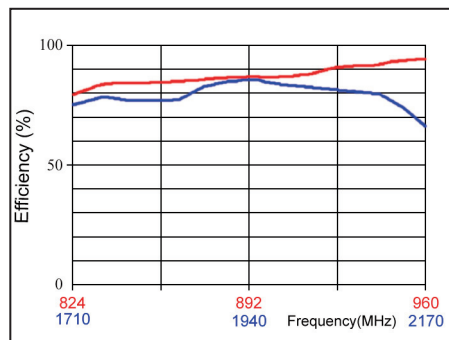
**Azimuth**



**Elevation**



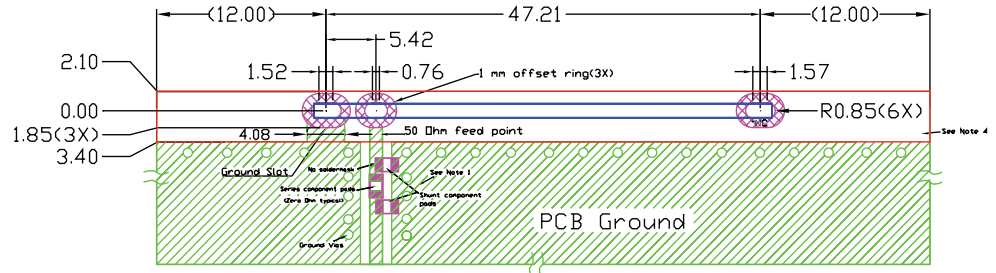
**Efficiency**



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

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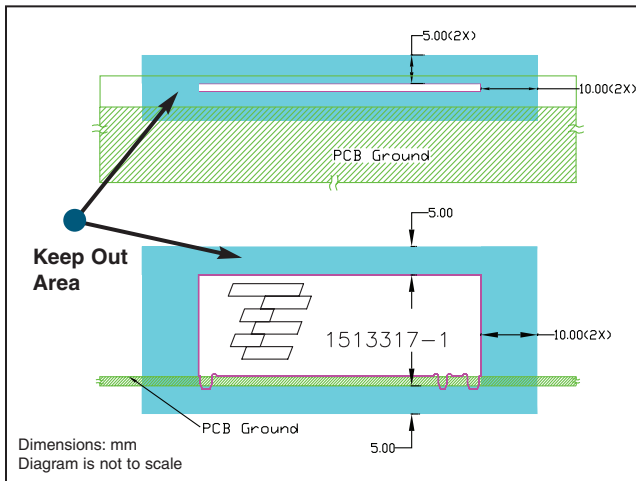
**Mounting Guide**



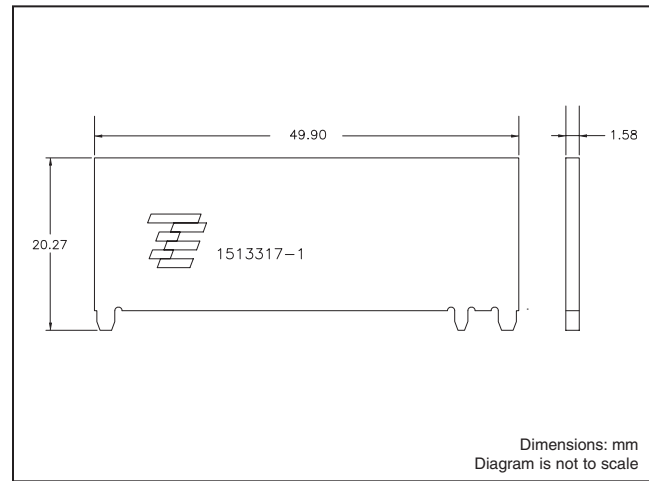
Dimensions: mm  
Diagram is not to scale

- 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**



**Approx. Dimensions**



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Consult TE for the latest dimensions and design specifications.

9565 Soquel Drive  
Aptos, CA 95003  
(+ 831) 662-1174  
<http://www.antenna.te.com>