

**2400 – 2483.5 & 5150 – 5875 MHz Dual Band Antenna**  
(802.11 a/b/g/n, includes frequencies of Bluetooth, ZigBee, and Wi-Fi products)

Part Number: 1513164-1

**Product Facts**

- This is a surface-mount dual-band antenna intended for use in Bluetooth, and 802.11 a/b/g/n applications. This antenna provides excellent performance at a low cost.
- Available in tape & reel.
- RoHS compliant

**Recommendations**

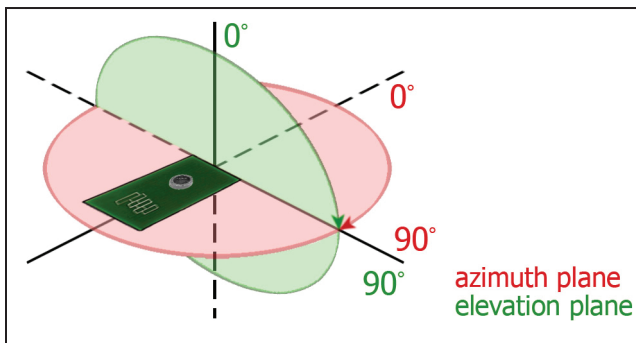
- Minimum or no matching circuits required.
- Bandwidth and performance is dependent on ground plane size. Suggested minimum ground plane length from the antenna feed is 30 mm.
- PCB ground is to be on top layer.



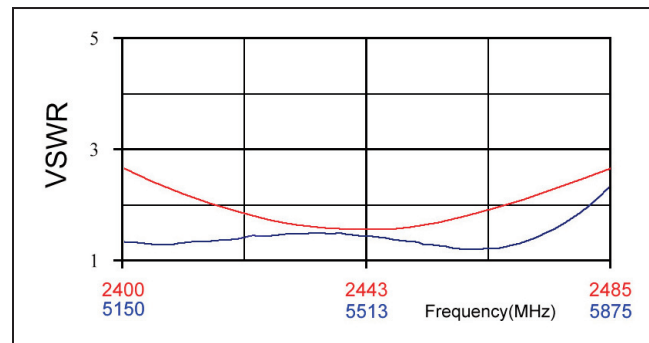
**Specifications**

Frequency Range (MHz)	2400 – 2483.5; 5150 – 5875
Peak Gain	+4 dBi
VSWR	< 2.5:1
Polarization	Linear
Power Handling	10 Watt cw
Feed Point Impedance	50 Ohms unbalanced
Size	16.0 mm x 6.0 mm
Weight	< 1 g.
Mounting	Surface-mount technology. See page 2
Keep Out Area	See diagram on page 2
Reflow Temperature	240°C PB free
Operating Temperature	-40°C ~ 85°C

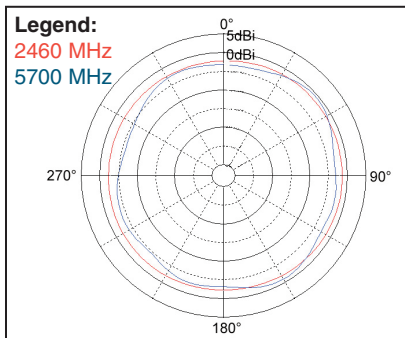
**Test Orientation in Free Space**



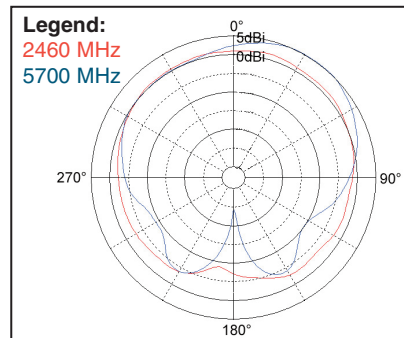
**VSWR**



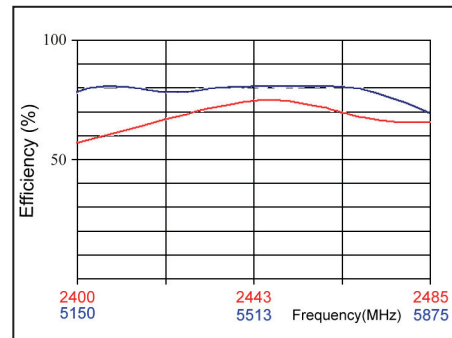
**Azimuth**



**Elevation**



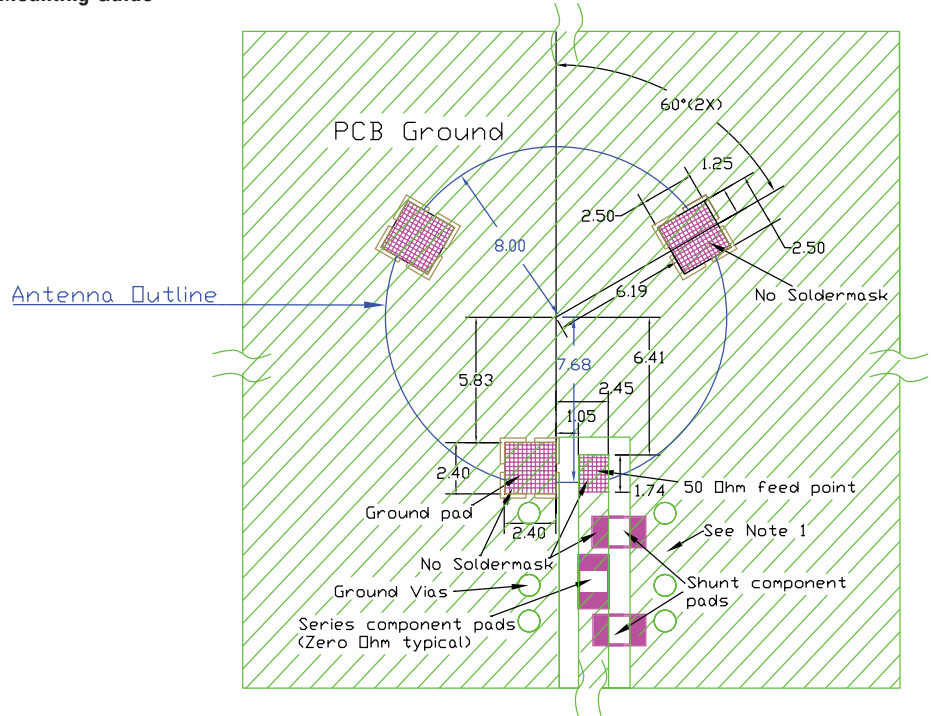
**Efficiency**



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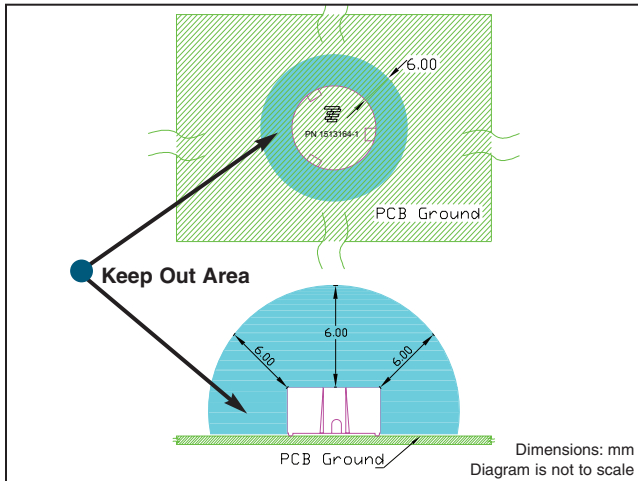
**Mounting Guide**



- NOTES: 1. Suggested matching component pads.  
2. For more information please call TE.

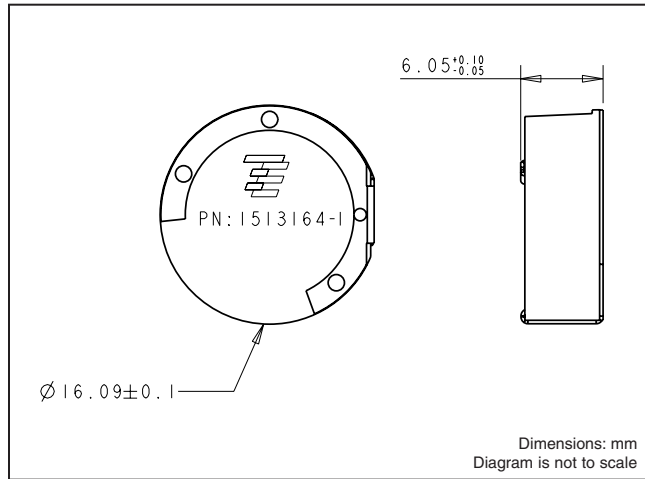
Dimensions: mm  
Diagram is not to scale

**Keep Out Area**



Dimensions: mm  
Diagram is not to scale

**Approx. Dimensions**



Dimensions: mm  
Diagram is not to scale

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Consult TE for the latest dimensions and design specifications.

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