

"High Frequency Ceramic Solutions"

Preliminary

915 MHz Antenna

P/N 0915AT43A0042

Detail Specification: 11/30/2009

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General Specifications

Part Number	0915AT43A0042
Frequency Range	894 - 936 MHz
Peak Gain	-1.0 dBi typ. (XZ-total)
Average Gain	-4.0 dBi typ. (XZ-total)
Return Loss	8.5 dB min.
Impedance	50 Ω
Input Power	2W max.

Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 12 mos. max
Reel Quantity	1,000

No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

Mechanical Dimensions

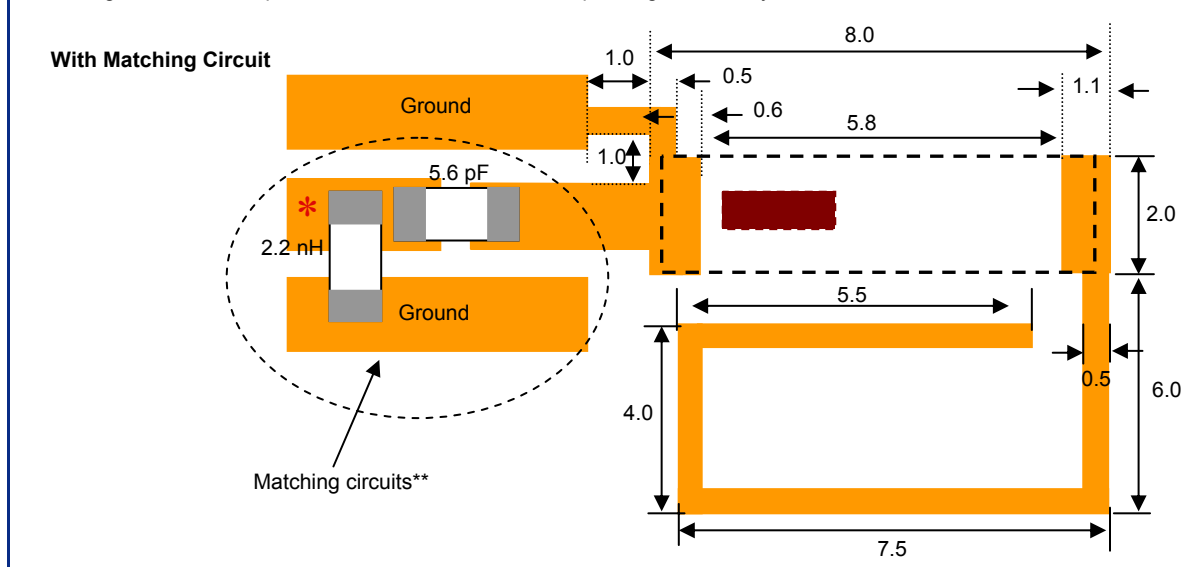
	In	mm
L	0.276 \pm 0.008	7.00 \pm 0.20
W	0.079 \pm 0.008	2.00 \pm 0.20
T	0.031 +.004/-0.008	0.80 +0.1/-0.2
a	0.020 \pm 0.012	0.50 \pm 0.30

Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics.

**Matching circuit and component values will be different, depending on PCB layout



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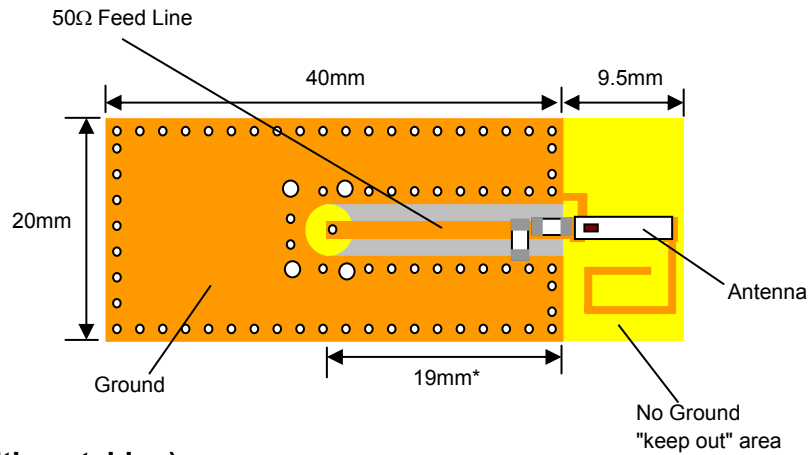
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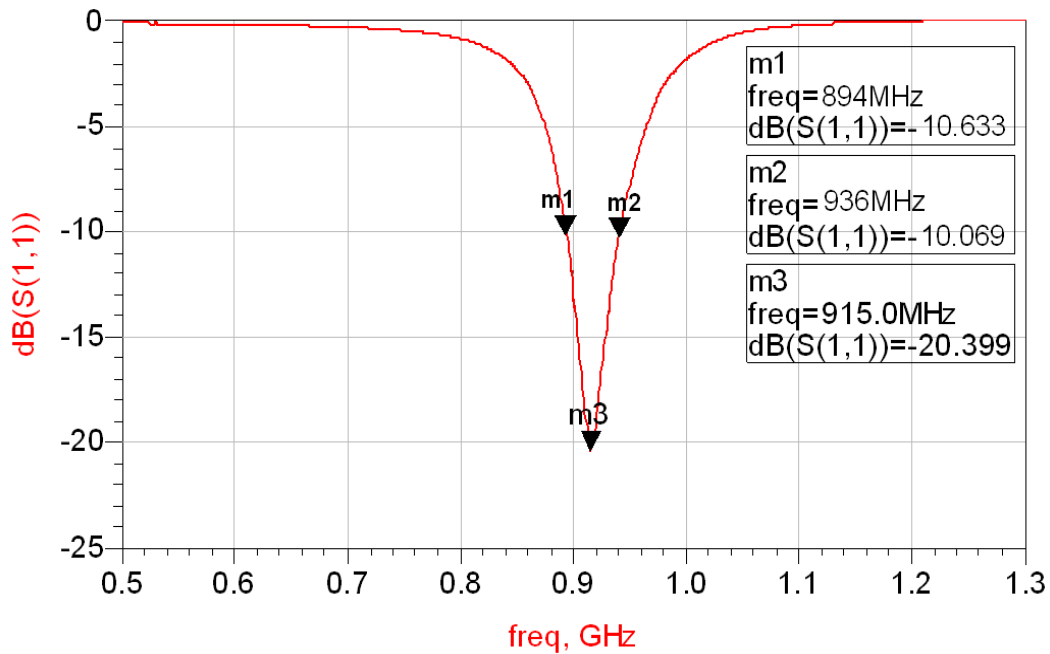
Mounting Considerations

* 50Ω feed line can be shorter, 19mm length is for testing purposes

Test Board



Return Loss (with matching)



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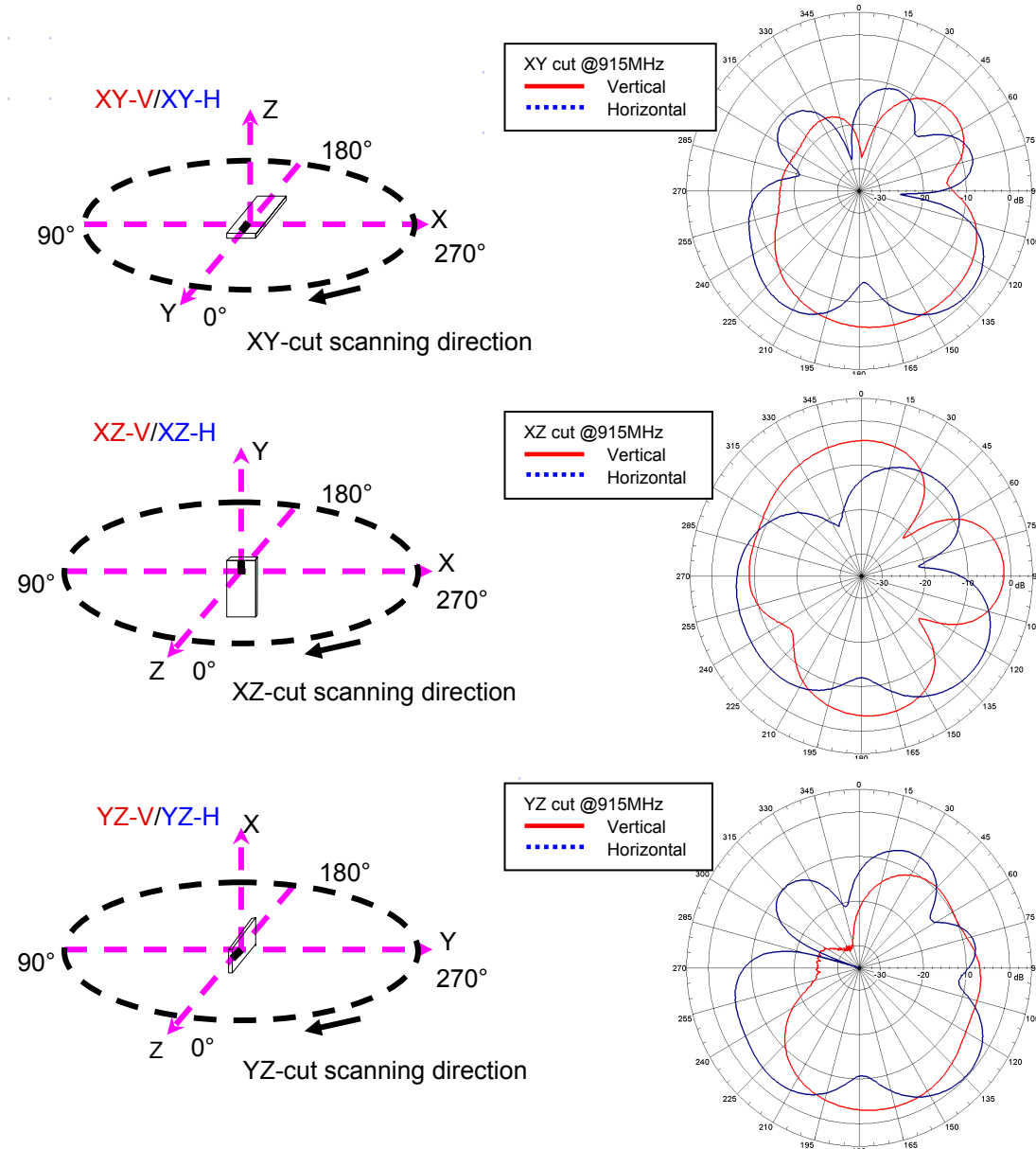


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Typical Radiation Patterns



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