

# High Frequency Ceramic Solutions

## 4.0 GHz Antenna

P/N 4000AT44A1800

Detail Specification: 02/09/10

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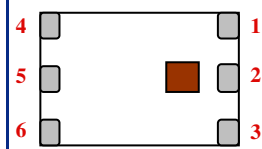
### General Specifications

Part Number	4000AT44A1800
Freq. Range (GHz)	3100 - 4900
Peak Gain (XY-H)	2.7 dBi typ.
Average Gain (XY-H)	-3.5 dBi typ.
Return Loss	7.4 dB min.

Input Power	3W max.
Impedance	50 $\Omega$
Operating Temp.	-40 to +85°C
Storage Temp.	+5 to +85°C, Humidity 45-75%RH
Reel Quantity	1,000

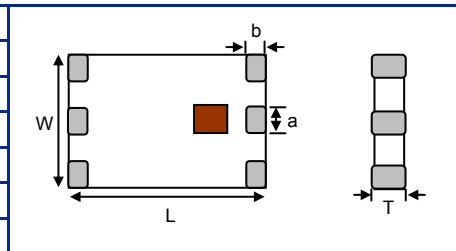
P/N	Packaging Style	Bulk	Suffix = S	Eg. 4000AT44A1800S
		T & R	Suffix = E	Eg. 4000AT44A1800E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 4000AT44A1800(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 4000AT44A1800(E or S)/Pb

Terminal Configuration	
No.	Function
1	NC
2	Feeding Point
3	NC
4	NC
5	NC
6	NC



### Mechanical Dimensions

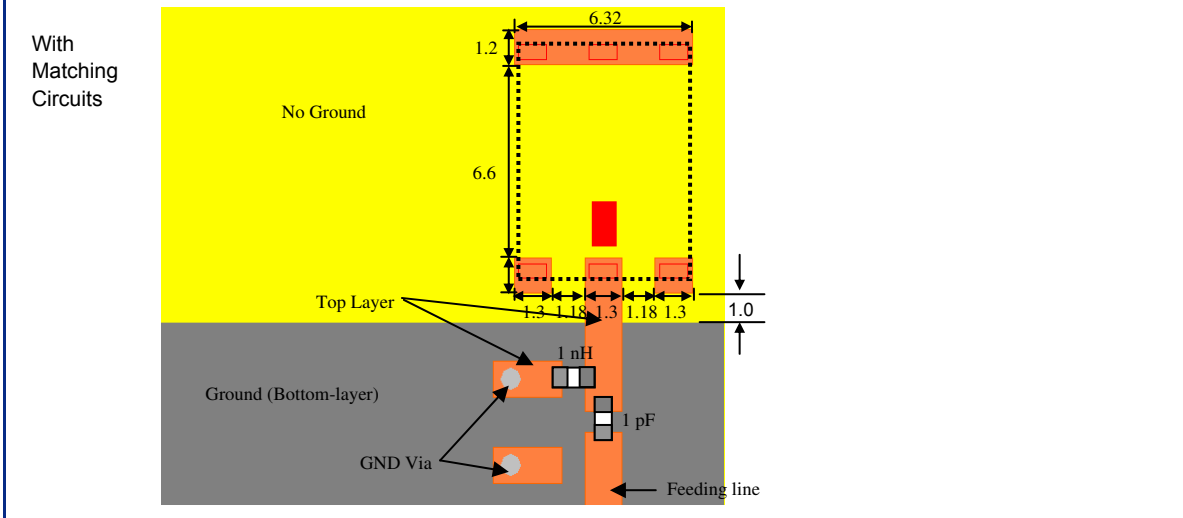
	In	mm
L	0.315 $\pm$ 0.012	8.00 $\pm$ 0.30
W	0.236 $\pm$ 0.012	6.00 $\pm$ 0.30
T	0.039 $\pm$ 0.008	1.00 $\pm$ 0.20
a	0.039 $\pm$ 0.008	1.00 $\pm$ 0.20
b	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



### Mounting Considerations

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

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics, depending on PCB material and thickness.



Johanson Technology, Inc. reserves the right to make design changes without notice.

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[www.johansontechnology.com](http://www.johansontechnology.com)

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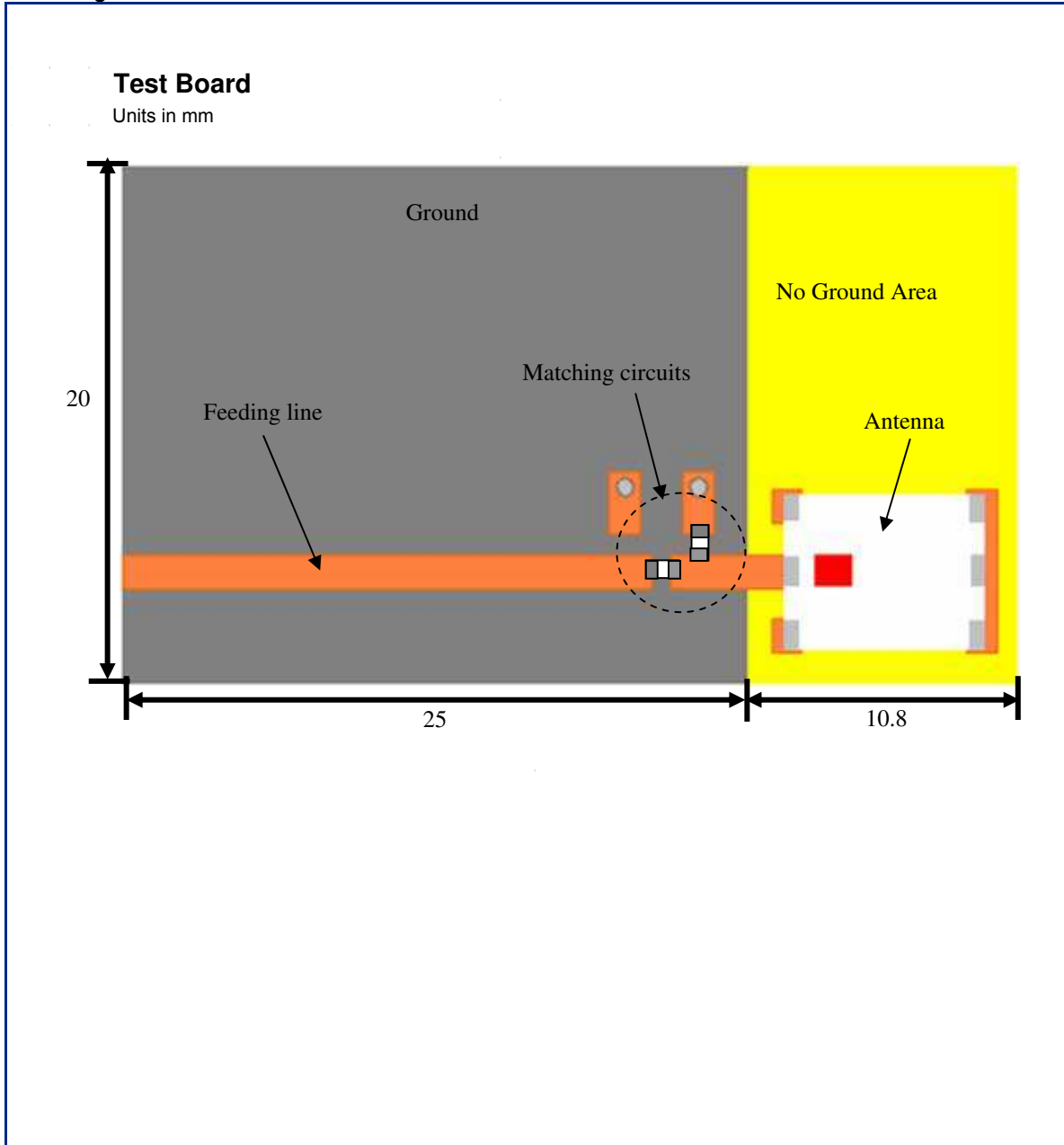
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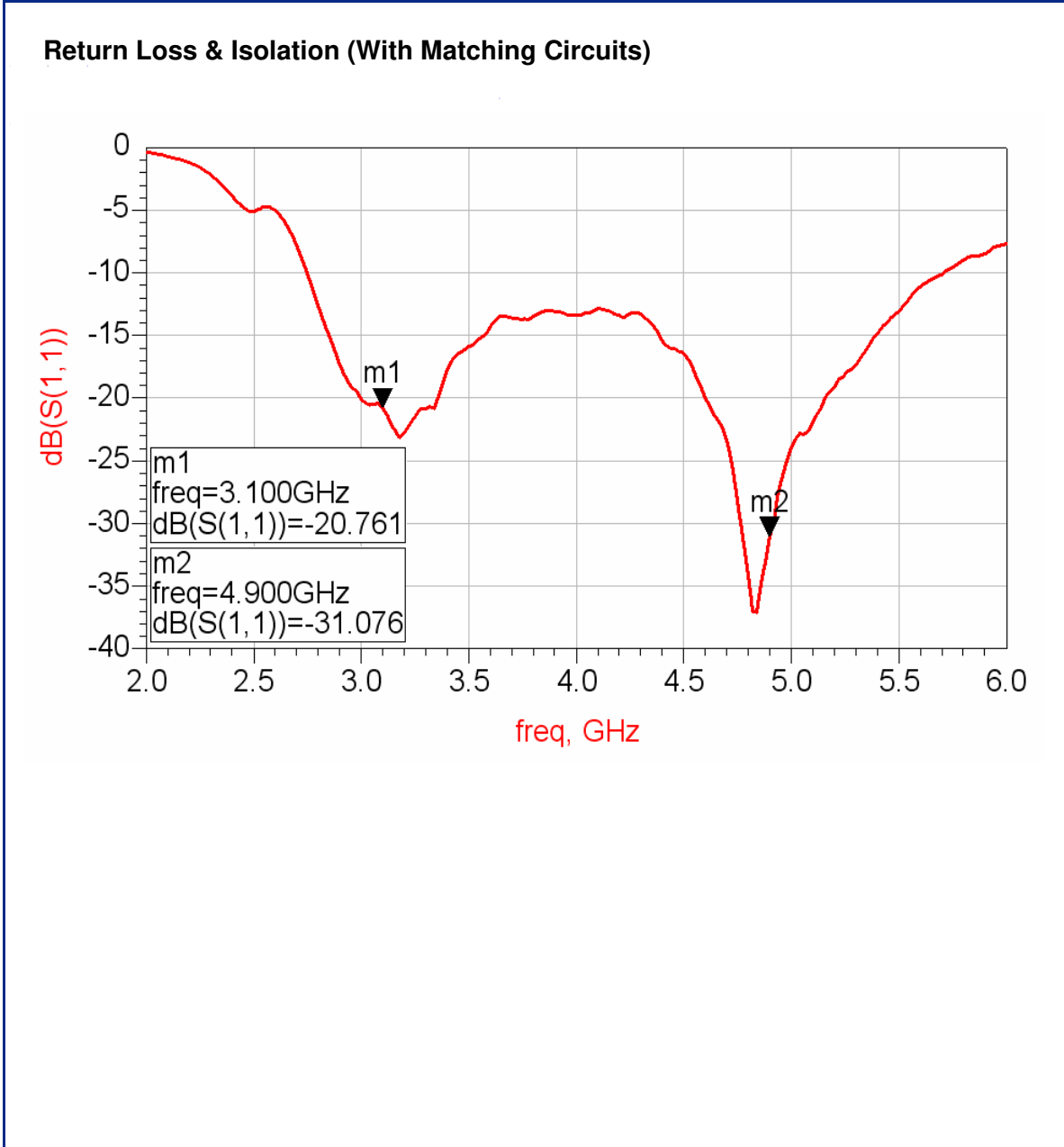
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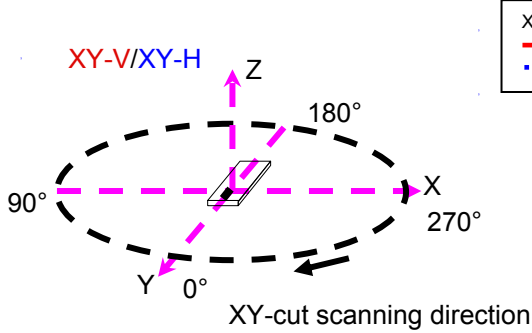
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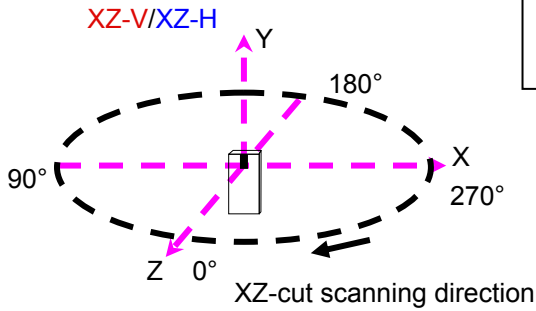
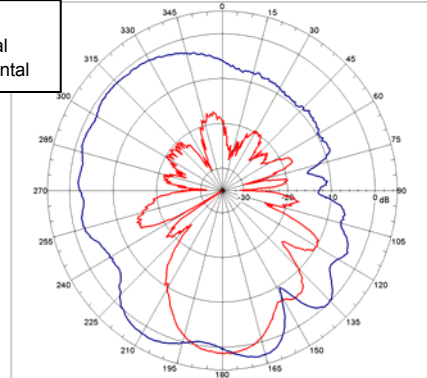
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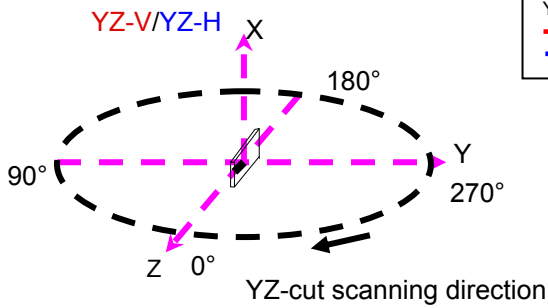
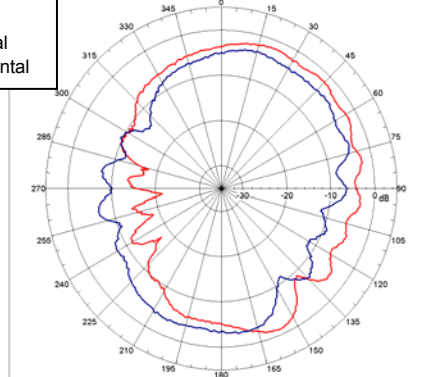
## Ant1 Radiation Patterns



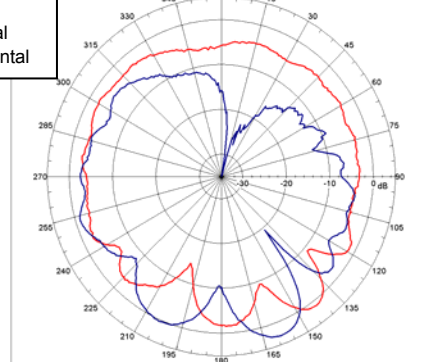
XY cut @4.0GHz  
 — Vertical  
 ..... Horizontal



XZ cut @4.0GHz  
 — Vertical  
 ..... Horizontal



YZ cut @4.0GHz  
 — Vertical  
 ..... Horizontal



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