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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# High Frequency Ceramic Solutions

## 4.0 GHz Antenna

P/N 4000AT44A1800

Detail Specification: 02/09/10

Page 1 of 4

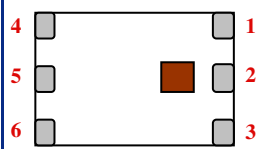
### General Specifications

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 Ω
Operating Temp.	-40 to +85°C
Storage Temp.	+5 to +85°C, Humidity 45-75%RH
Reel Quantity	1,000

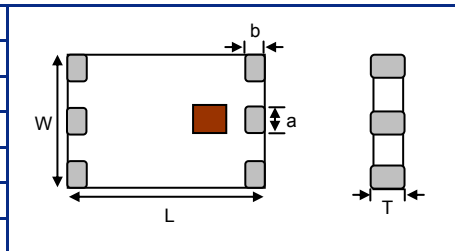
P/N	Packaging Style	Bulk	Suffix = S	Eg. 4000AT44A1800S
		T & R	Suffix = E	Eg. 4000AT44A1800E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 4000AT44A1800(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 4000AT44A1800(E or S)/Pb

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



### Mechanical Dimensions

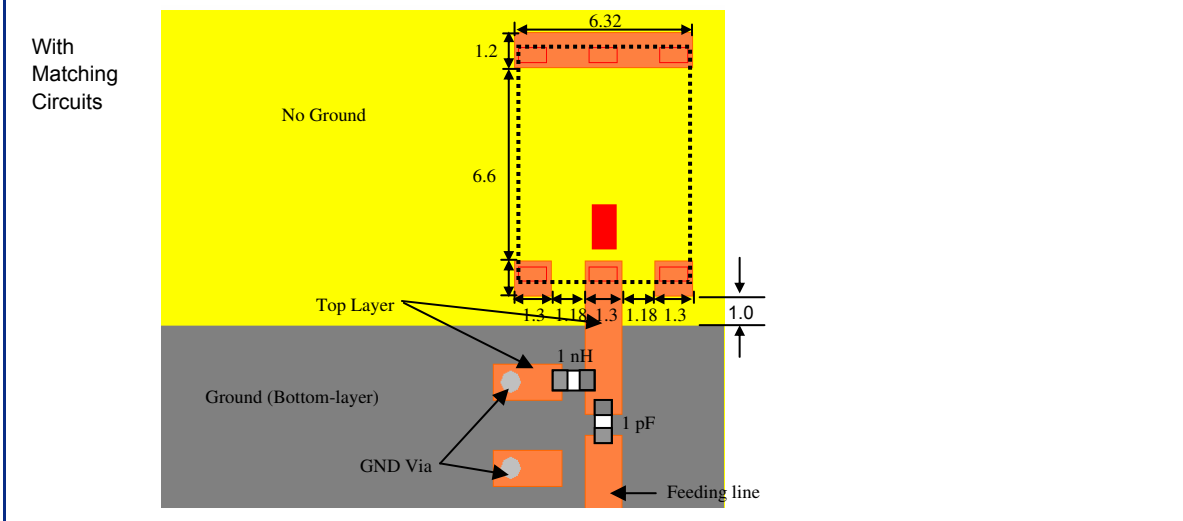
	In	mm
L	0.315 ± 0.012	8.00 ± 0.30
W	0.236 ± 0.012	6.00 ± 0.30
T	0.039 ± 0.008	1.00 ± 0.20
a	0.039 ± 0.008	1.00 ± 0.20
b	0.020 ± 0.012	0.50 ± 0.30



### Mounting Considerations

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

\* Line width should be designed to provide 50 Ω 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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# High Frequency Ceramic Solutions

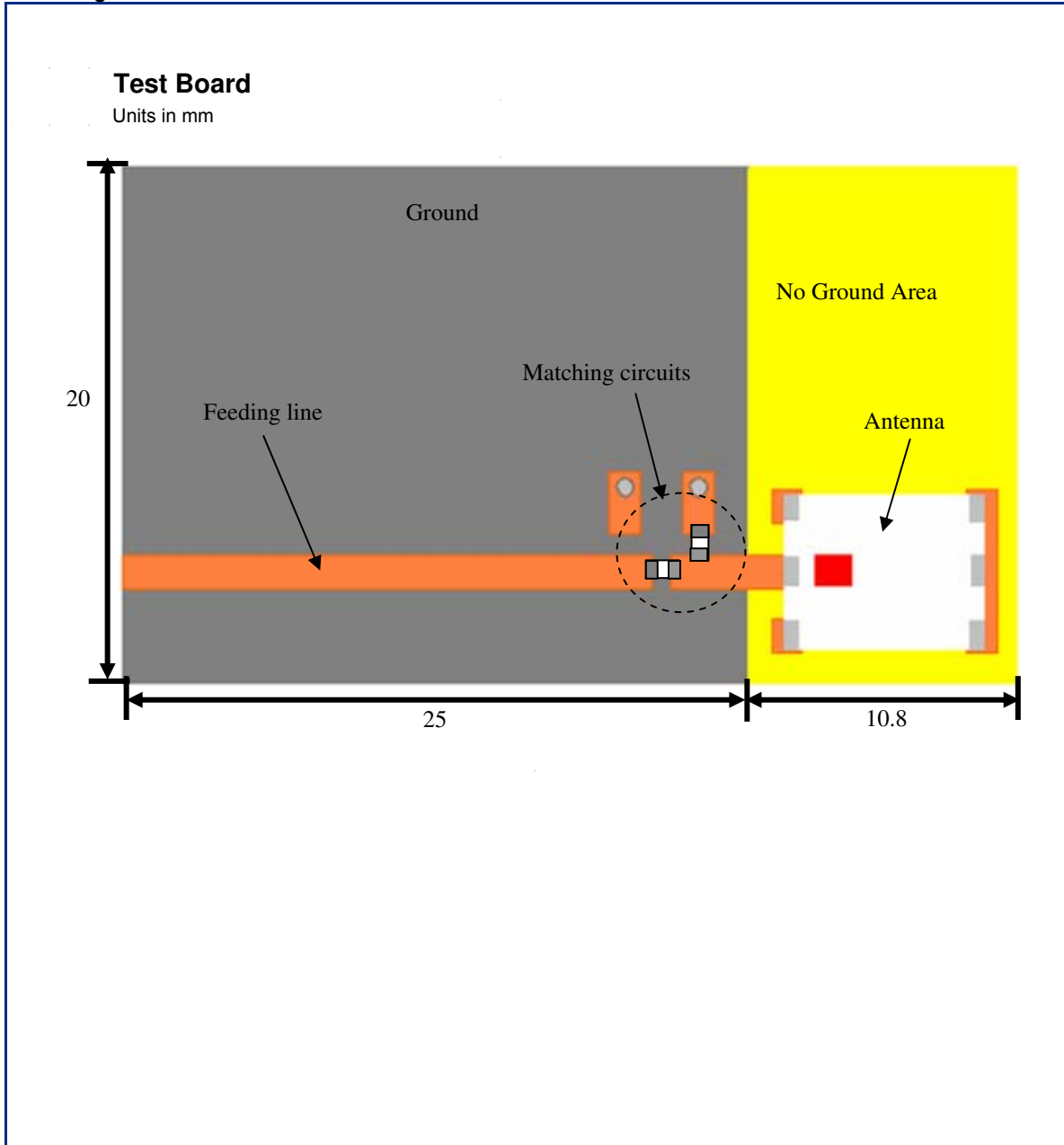
4.0 GHz Antenna

P/N 4000AT44A1800

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## Mounting Considerations



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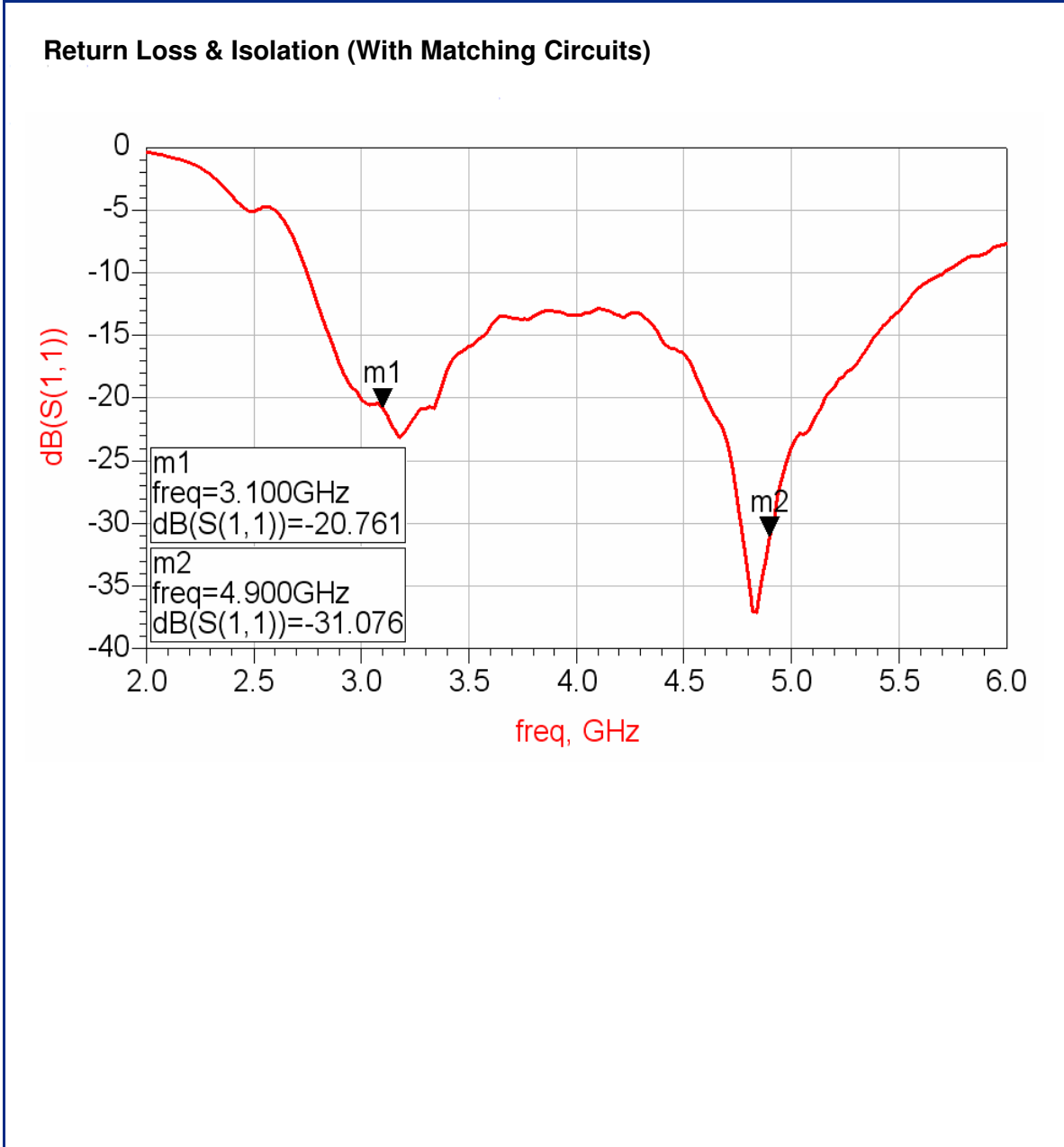
4.0 GHz Antenna

P/N 4000AT44A1800

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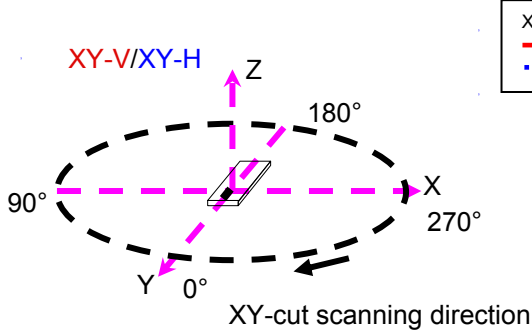
4.0 GHz Antenna

P/N 4000AT44A1800

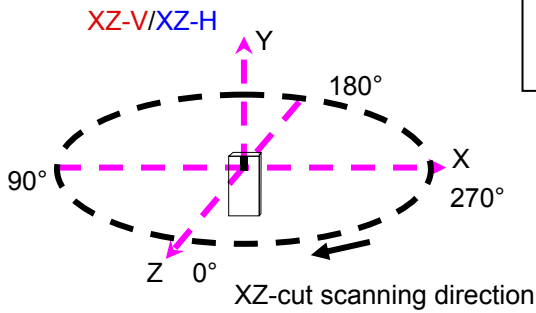
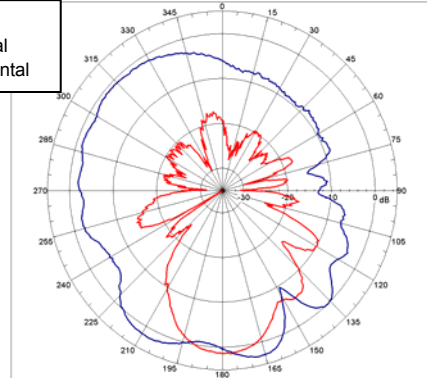
Detail Specification: 02/09/10

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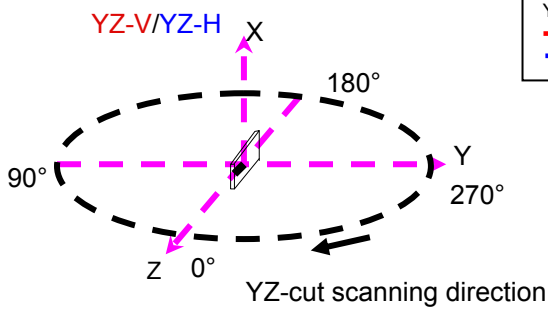
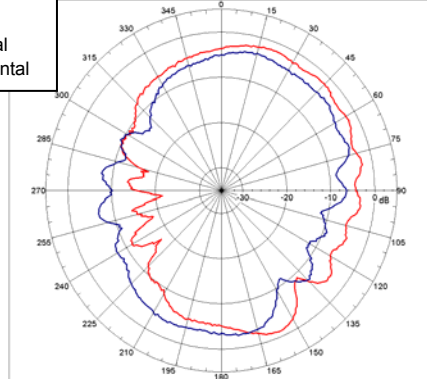
## Ant1 Radiation Patterns



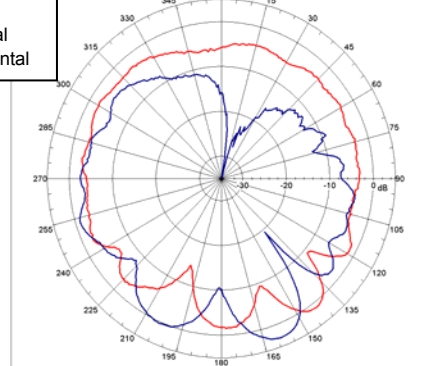
XY cut @4.0GHz  
 — Vertical  
 ..... Horizontal



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



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



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