PRELIMINARY

4.0 GHz Antenna **P/N 4000AT44A1800**

Detail Specification: 10/12/07

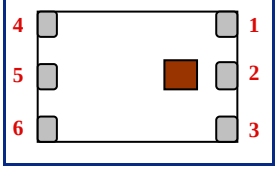
General Specifications

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 Quanity	1,000

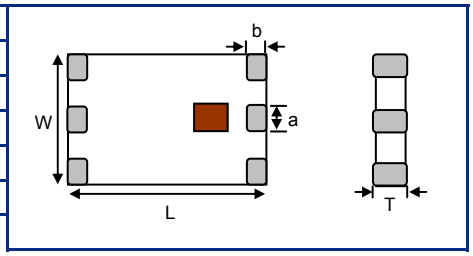
P/N Suffix	**Packaging Style**	Bulk	Suffix = S	Eg. 4000AT44A1800S
		T & R	Suffix = E	Eg. 4000AT44A1800E
	Termination Style	100% Tin	Suffix = None	Eg. 4000AT44A1800(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 4000AT44A1800(E or S)/Pb

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

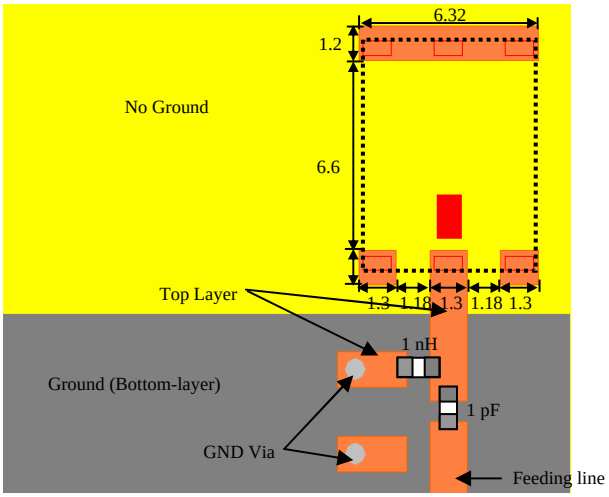


Mounting Considerations

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.

With Matching Circuits



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY

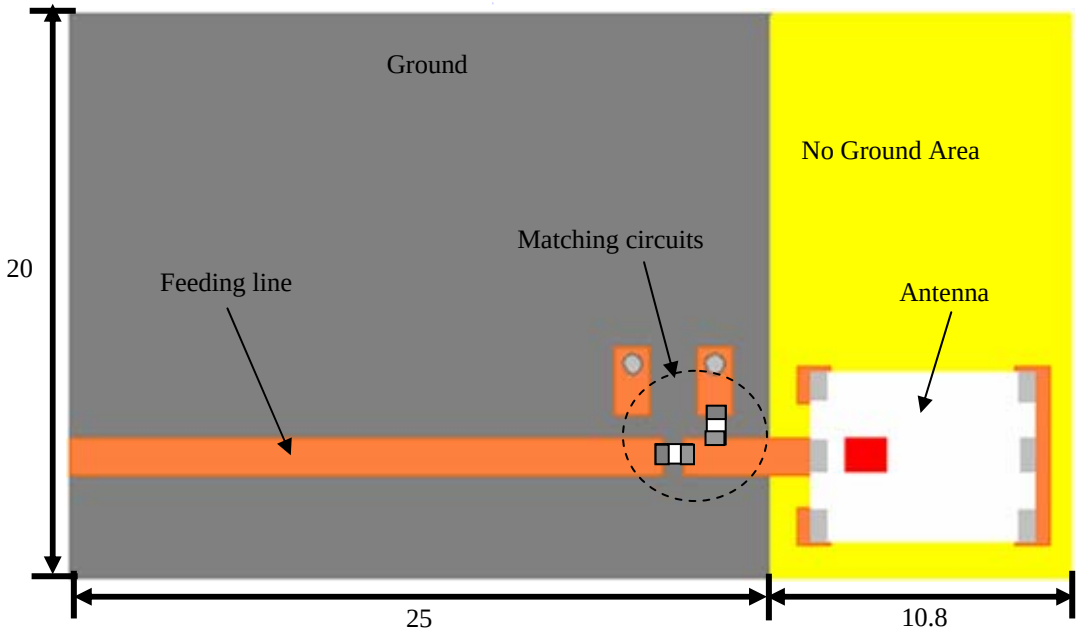
www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

Mounting Considerations

Test Board
Units in mm

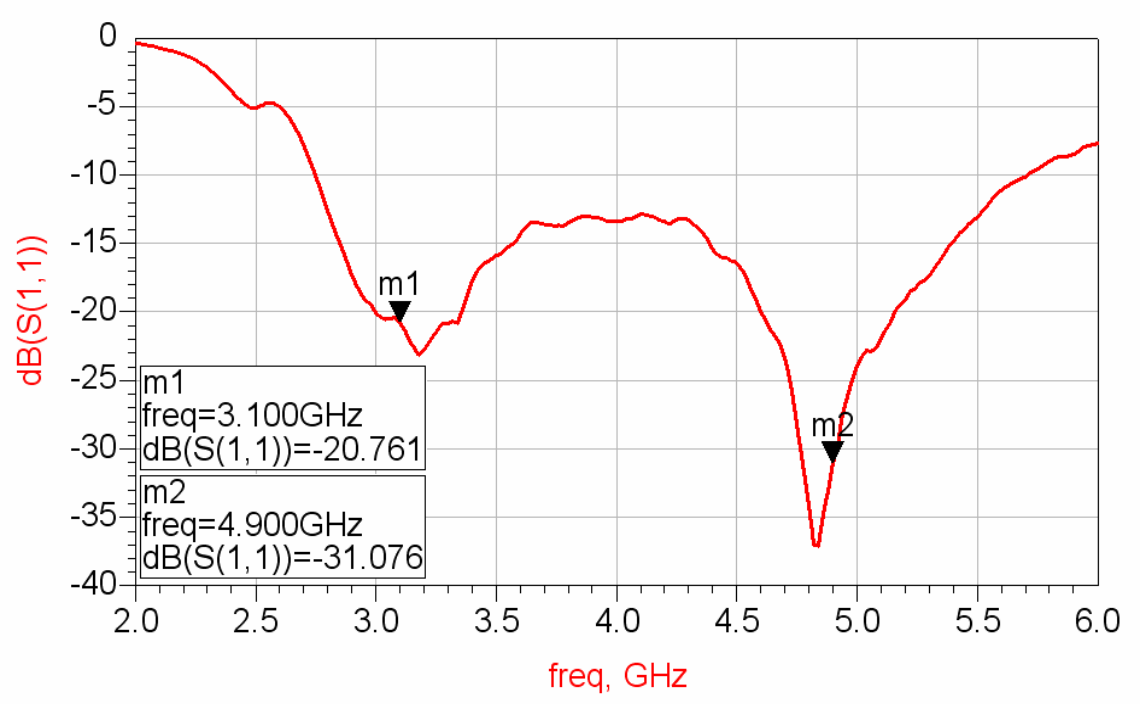


Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY
www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821
2003 Johanson Technology, Inc. All Rights Reserved

Mounting Considerations

Return Loss & Isolation (With Matching Circuits)



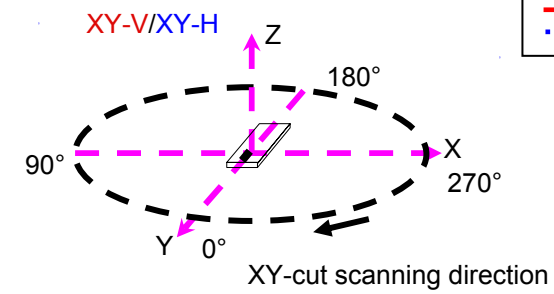
Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY

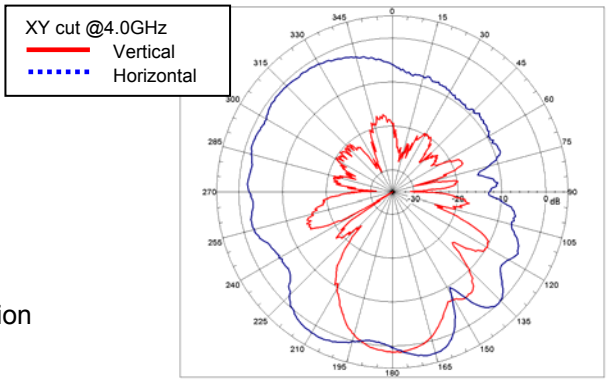
www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

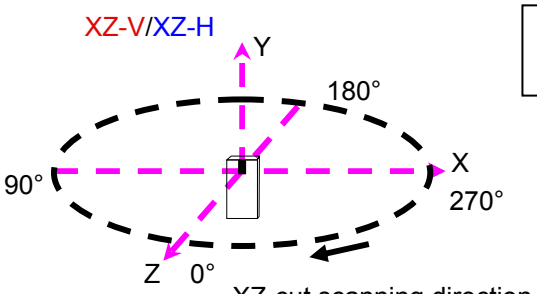
2003 Johanson Technology, Inc. All Rights Reserved

Ant1 Radiation Patterns

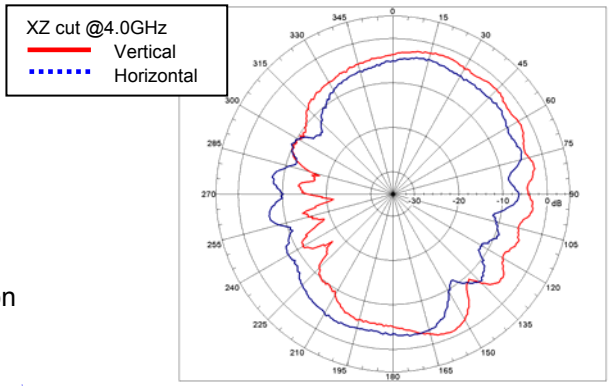


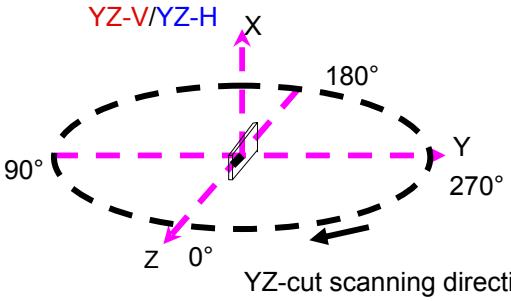
XY-cut scanning direction



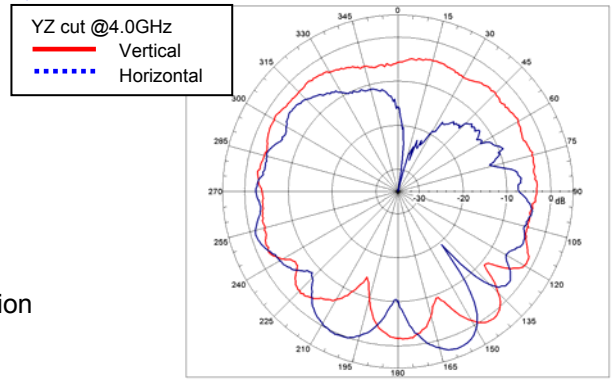


XZ-cut scanning direction





YZ-cut scanning direction



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY

www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved