

# High Frequency Ceramic Solutions

## 2.45 GHz Antenna

P/N 2450AT43D100

Detail Specification: 11/29/06

Page 1 of 4

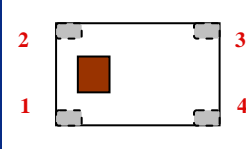
### General Specifications

Part Number	2450AT43D100
Freq. Range (GHz)	2400 - 2500
Peak Gain (XZ-V)	-0.5 dBi typ.
Average Gain (XZ-V)	-3.6 dBi typ.
Return Loss	9.5 dB min.

Input Power	3W max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quantity	1,000

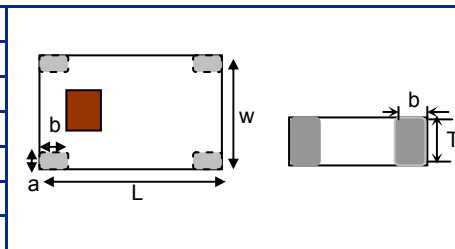
P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT43D100S
	Termination Style	T & R	Suffix = E	Eg. 2450AT43D100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT43D100(E or S)
	Termination Style	Tin / Lead	Suffix = /Pb	Eg. 2450AT43D100(E or S)/Pb

Terminal Configuration	
No.	Function
1	Feeding Point
2	GND
3	GND
4	GND



### Mechanical Dimensions

	In	mm
L	0.236 ± 0.008	6.00 ± 0.20
W	0.098 ± 0.008	2.50 ± 0.20
T	0.079 ± 0.008	2.00 ± 0.20
a	0.020 ± 0.008	0.50 ± 0.20
b	0.059 ± 0.008	1.50 ± 0.20

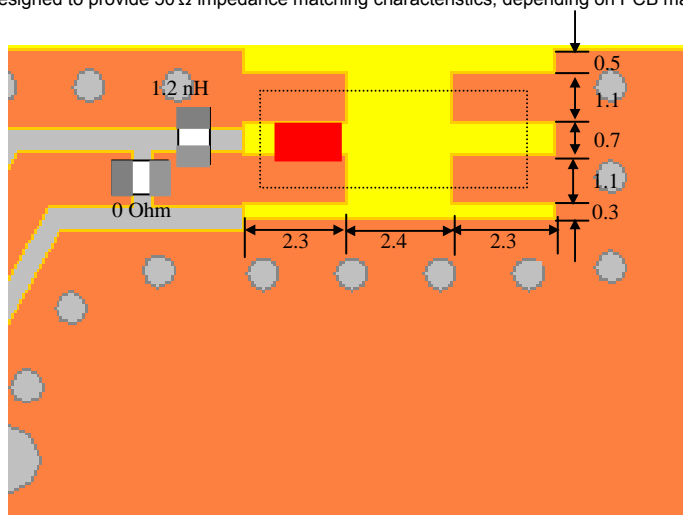


### Mounting Considerations

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.



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

# High Frequency Ceramic Solutions

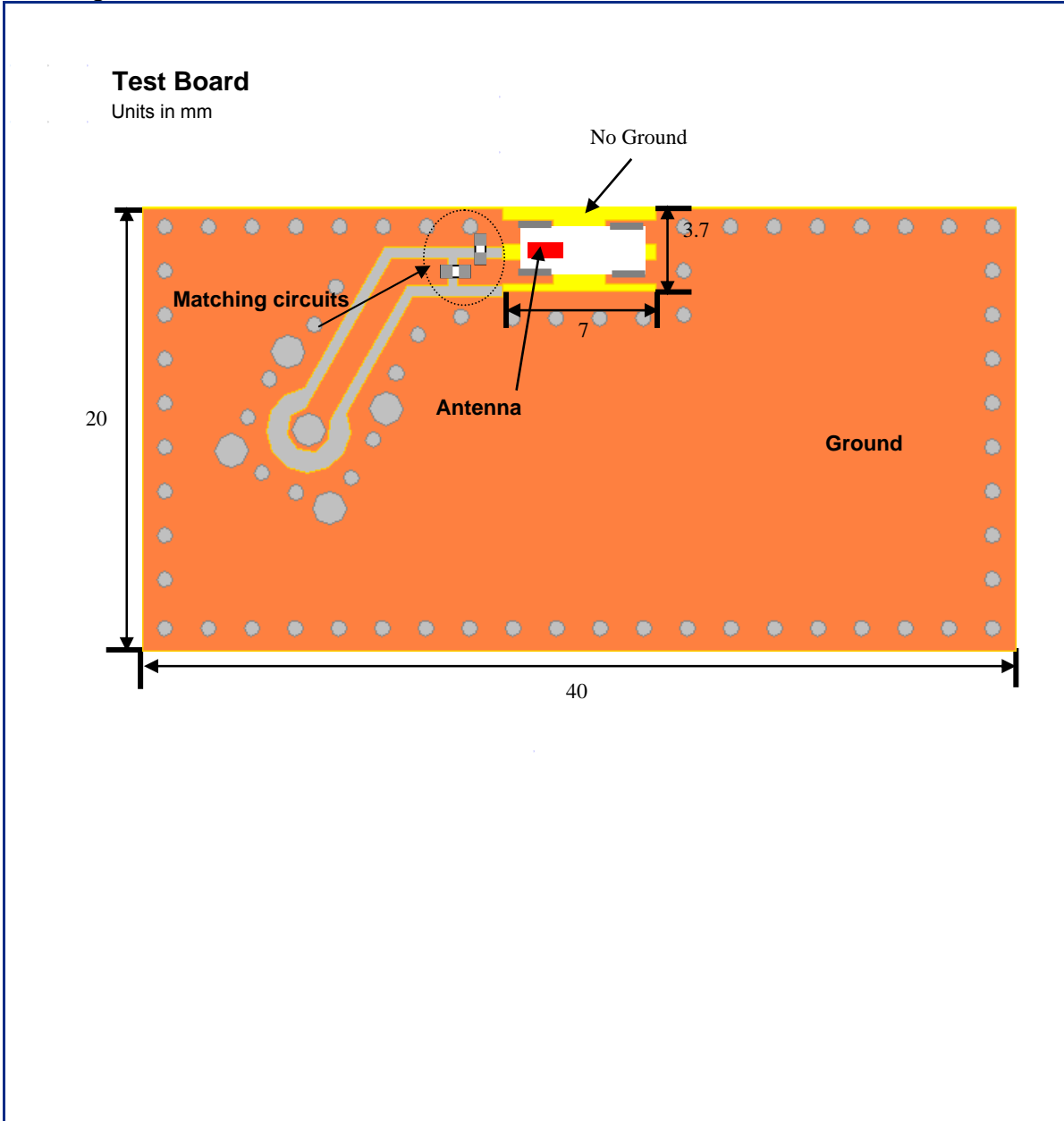
2.45 GHz Antenna

P/N 2450AT43D100

Detail Specification: 11/29/06

Page 2 of 4

## Mounting Considerations



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



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

# High Frequency Ceramic Solutions

2.45 GHz Antenna

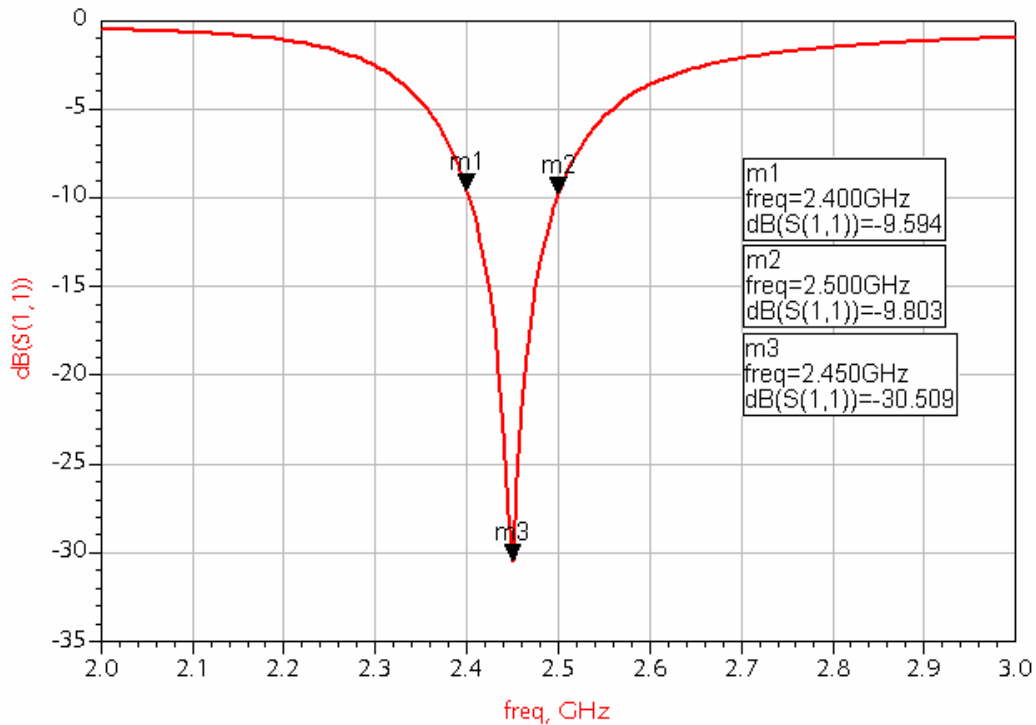
P/N 2450AT43D100

Detail Specification: 11/29/06

Page 3 of 4

## 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.



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

# High Frequency Ceramic Solutions

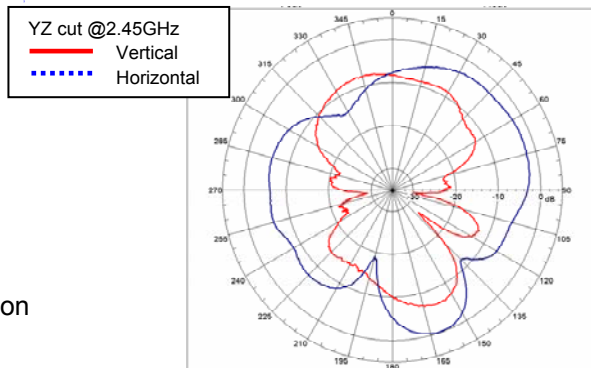
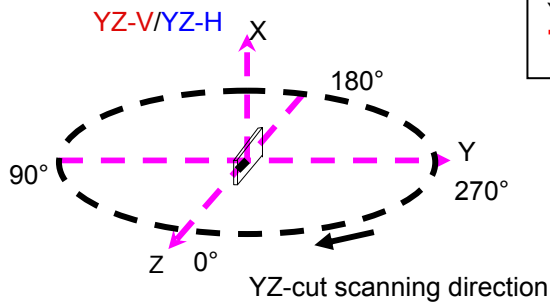
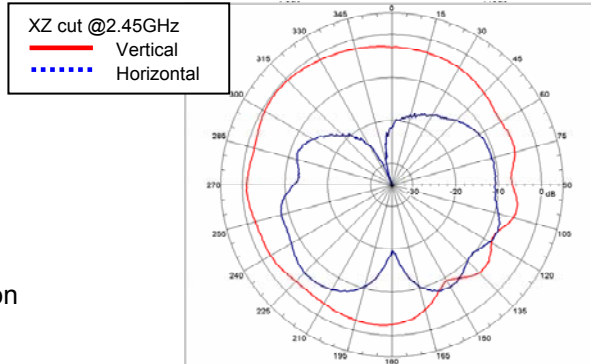
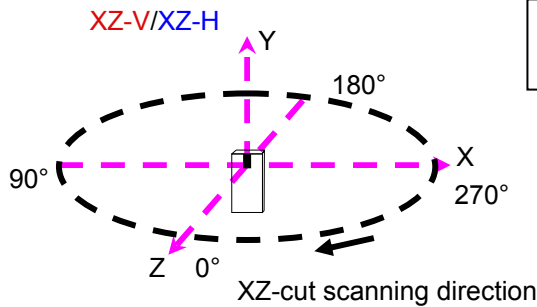
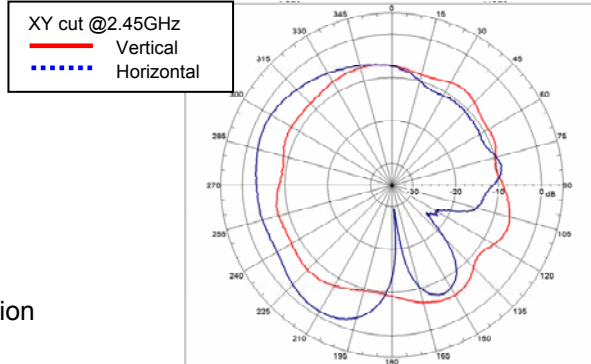
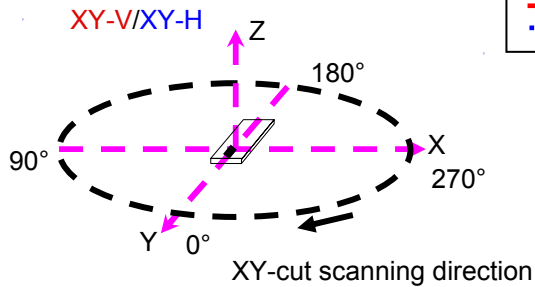
2.45 GHz Antenna

P/N 2450AT43D100

Detail Specification: 11/29/06

Page 4 of 4

## Ant1 Radiation Patterns



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



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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved