

"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT43B100

NEW with Ground Clearance Requirements Minimized

Detail Specification: 04/26/06

Page 1 of 4

General Specifications

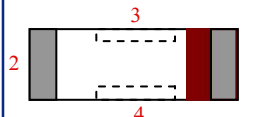
Model	2450AT43B100
Frequency Range	2400 - 2500 Mhz
Peak Gain	1 dBi typ. (XZ-V)
Average Gain	-0.5 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

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

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450AT43B100S
		T & R	Suffix = E	Eg. 2450AT43B100E
	Termination Style	100% Tin	Suffix = None	Eg. 2450AT43B100(E or S)
		Tin / Lead	Please consult Factory	

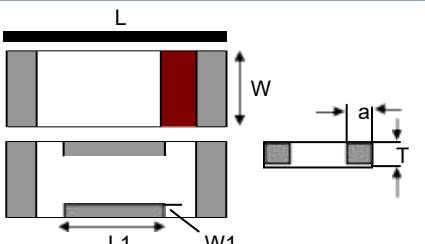
Terminal Configuration

No.	Function
1	Feed Point
2	* Anchoring Pin
3	* Anchoring Pin
4	* Anchoring Pin

A diagram showing a rectangular component with four pins. Pin 1 is the central feed point. Pins 2, 3, and 4 are anchoring pins located at the corners. The pins are numbered 1, 2, 3, and 4 in red.

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
L1	0.102 $\pm$ 0.008	2.60 $\pm$ 0.20
W1	0.020 $\pm$ 0.008	0.50 $\pm$ 0.20
T	0.079 $\pm$ 0.004/-0.008	2.00 $\pm$ 0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30

A diagram showing the mechanical dimensions of the antenna. It includes a top view with dimensions L, W, L1, and W1. A side view shows the thickness T and the distance a from the base to the feed point.

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www.johansontechnology.com

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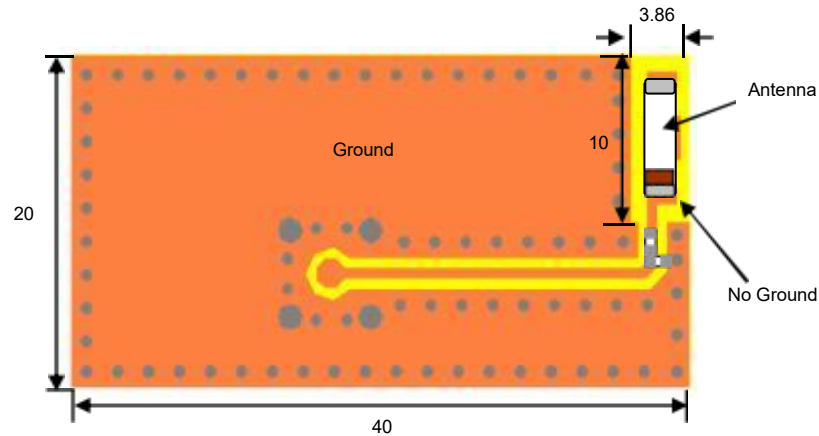
Detail Specification: 04/26/06

P/N 2450AT43B100

Page 3 of 4

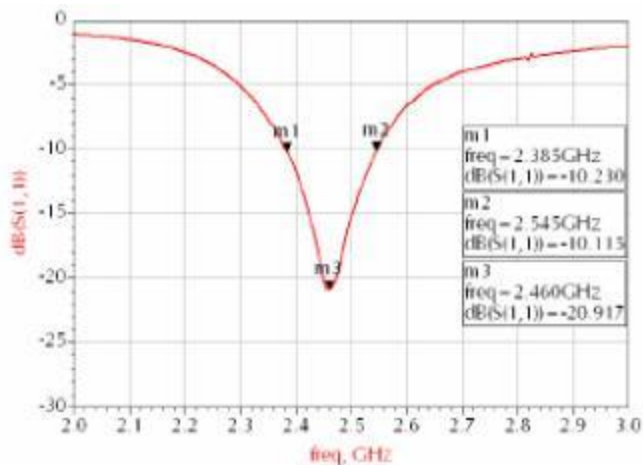
Typical Electrical Characteristics (T=25°C)

Test Board:



Return Loss

a) With Matching Circuit



	2400MHz	2450MHz	2500MHz
Gain(dBi)	0.88	1.00	0.97

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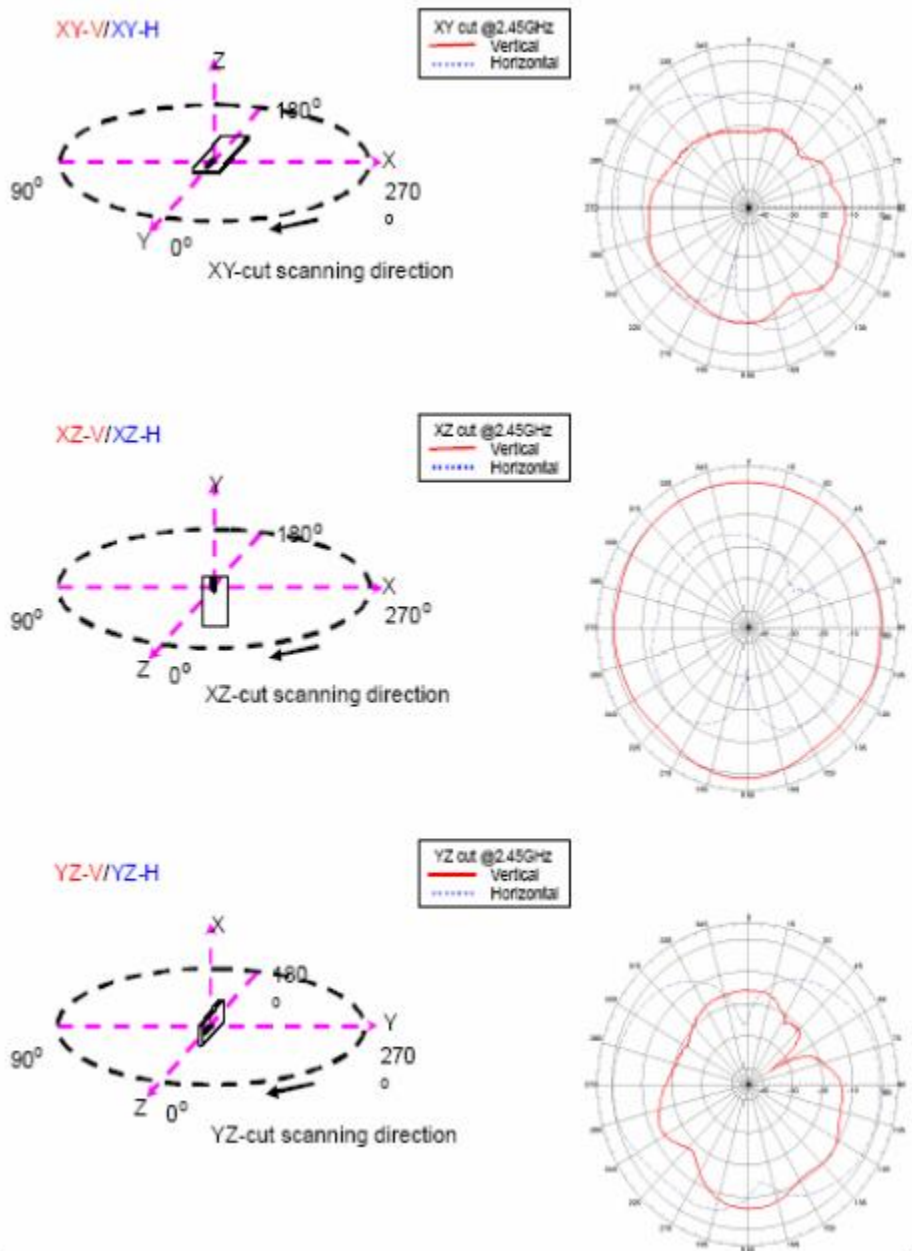
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Detail Specification: 04/26/06

P/N 2450AT43B100

Page 4 of 4

Typical Radiation Patterns



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