

High Frequency Ceramic Solutions

2.45 GHz Antenna

P/N 2450AT43D100

Detail Specification: 11/29/06

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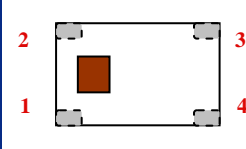
General Specifications

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

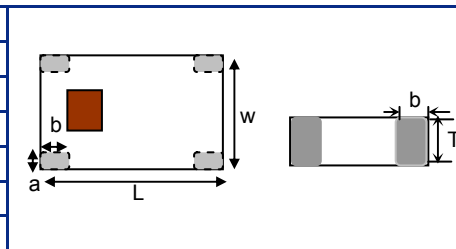
P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT43D100S
	Termination Style	T & R	Suffix = E	Eg. 2450AT43D100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT43D100(E or S)
	Termination Style	Tin / Lead	Suffix = /Pb	Eg. 2450AT43D100(E or S)/Pb

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



Mechanical Dimensions

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

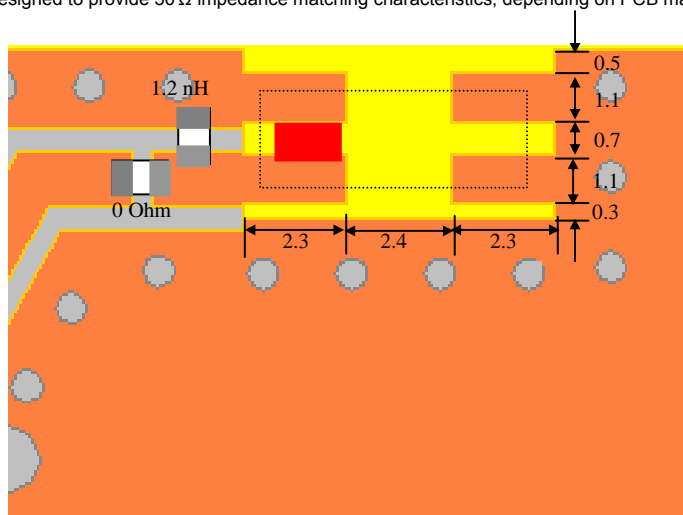


Mounting Considerations

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.
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www.johansontechnology.com

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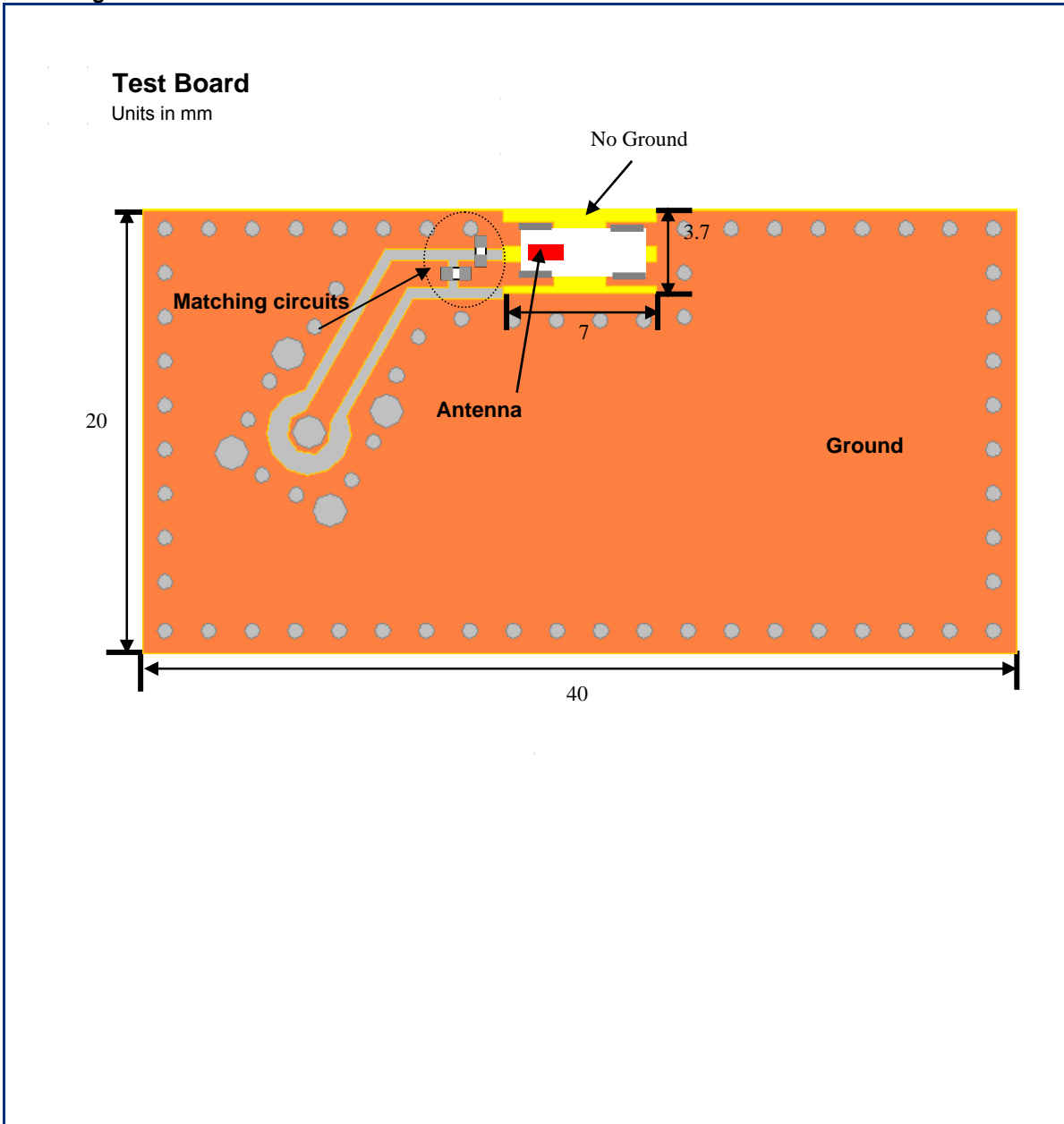
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Mounting Considerations



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2.45 GHz Antenna

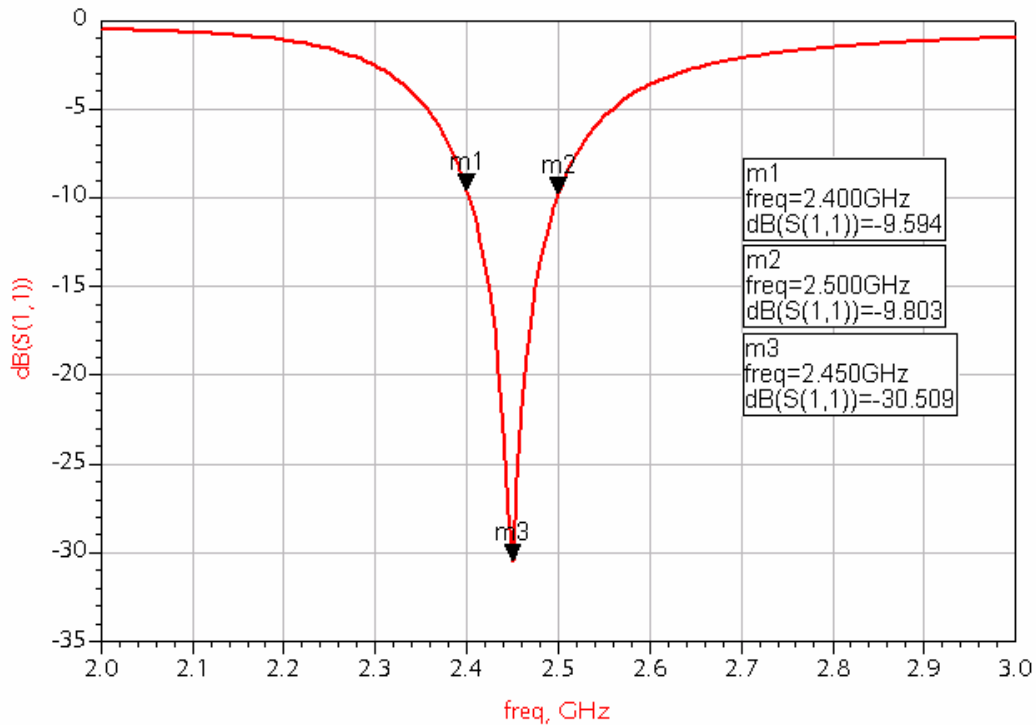
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Mounting Considerations

Return Loss & Isolation (With Matching Circuits)



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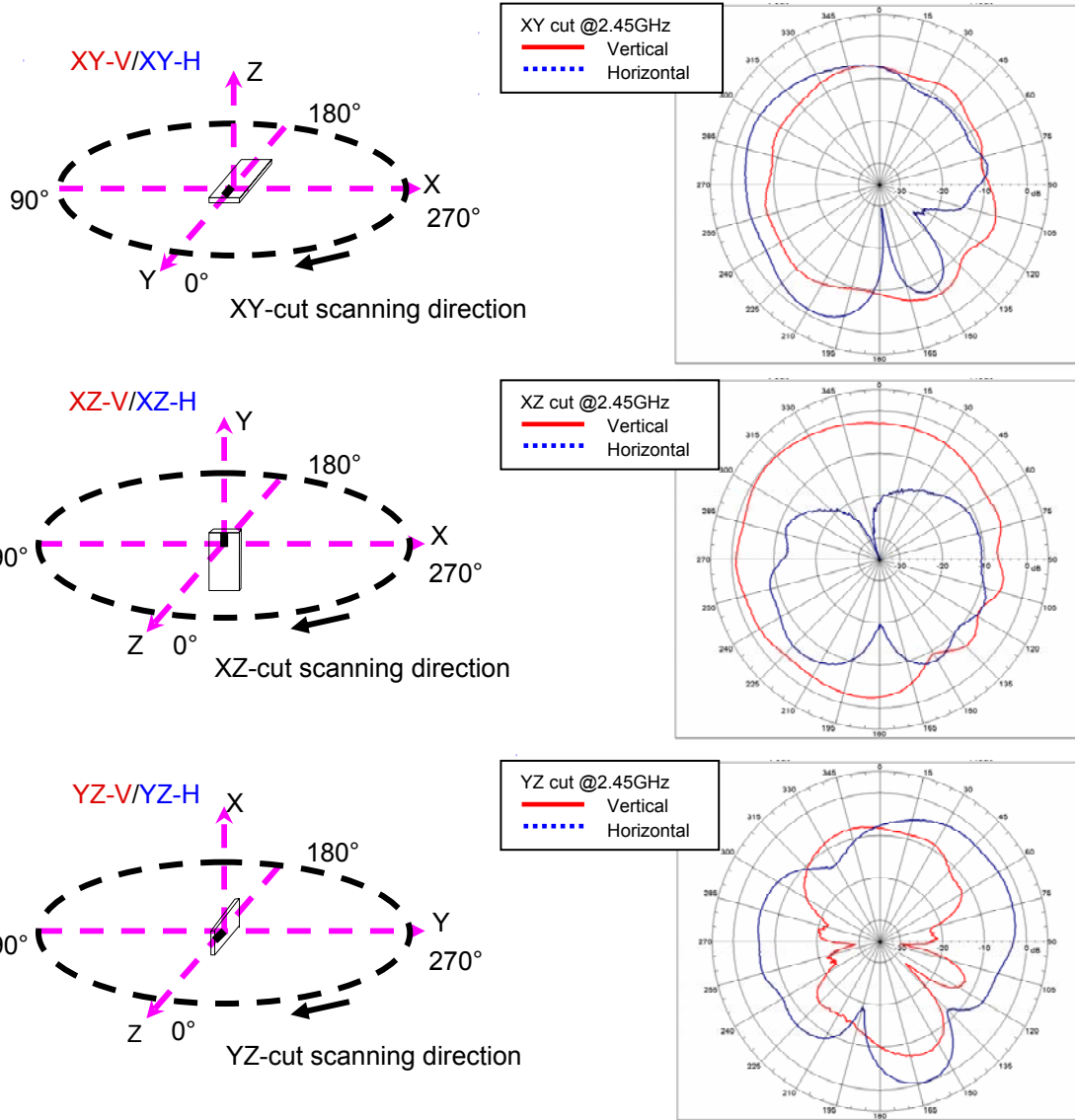
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Ant1 Radiation Patterns



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