

Approved 2.4GHz antennas list:

<i>Manufacturer</i>	<i>Antenna</i>	<i>Description</i>	<i>Type</i>	<i>Peak Gain (dBi)</i>	<i>Ω</i>	<i>Connector Type</i>
Johanson	2450AT42A100	2.4GHz Ceramic Chip RF Antenna 2.4GHz ~ 2.5GHz 0dBi Solder Surface Mount	Dielectric Resonator	+0	50	PCB Surface Mount

"High Frequency Ceramic Solutions"

2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 01/25/2012

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General Specifications

Part Number	2450AT42A100
Frequency Range	2400 - 2500 Mhz
Peak Gain	0 dBi typ. (XZ-V)
Average Gain	-1 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

Input Power	3 Watts max.
Impedance	50 Ω
Operating Temp.	-40 to +85°C
Reel Quantity	2,000

P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT42A100S
		T & R	Suffix = E	Eg. 2450AT42A100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT42A100(E or S)
	Evaluation Board	2450AT42A100-EB1SMA		

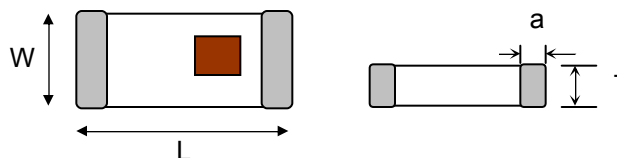
Terminal Configuration



No.	Function
1	Feeding Point
2	NC

Mechanical Dimensions

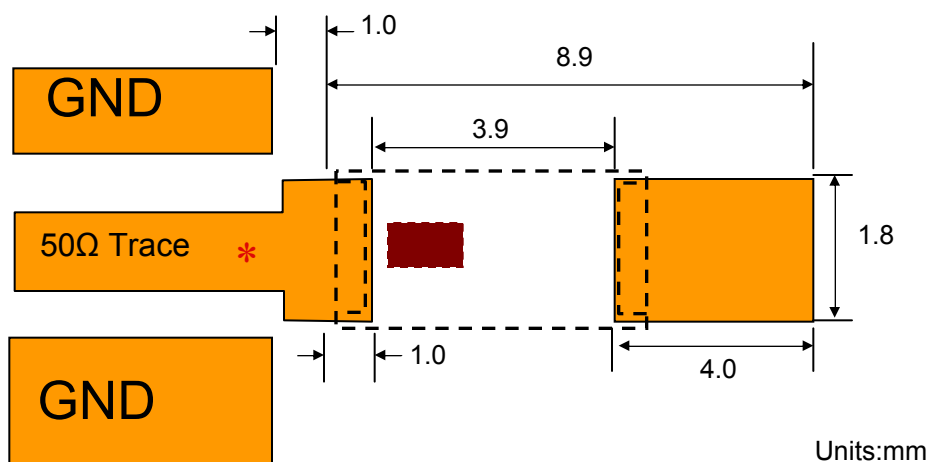
	In	mm
L	0.197 $\pm$ 0.008	5.00 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.043 $\pm$ 0.008	1.10 $\pm$ 0.20
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



Mounting Considerations

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

*Line width should be designed to provide 50 Ω impedance matching characteristics. Final mounting on customer's PCB might need a shunt-series-shunt type antenna matching circuit



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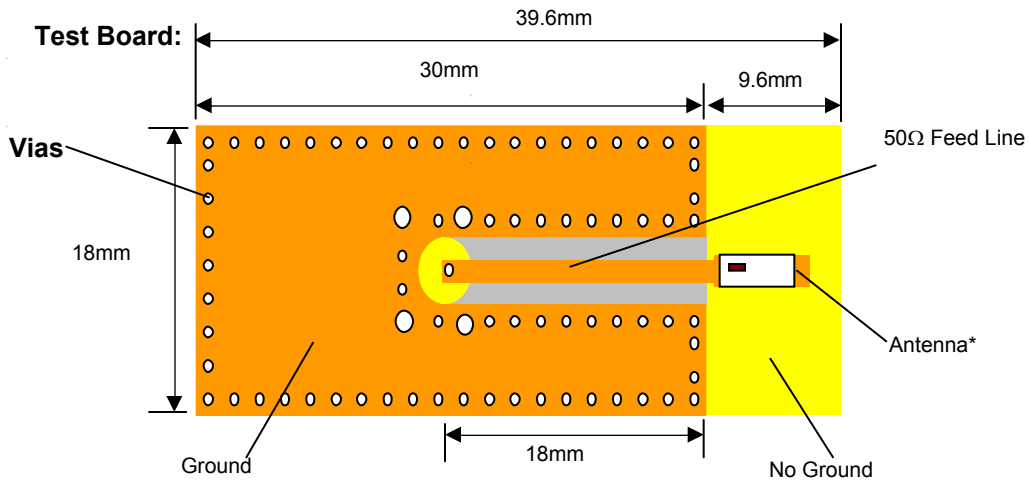
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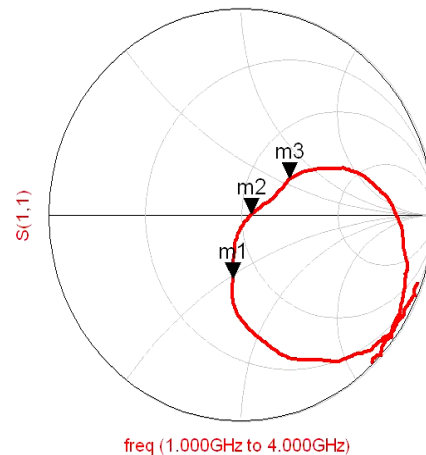
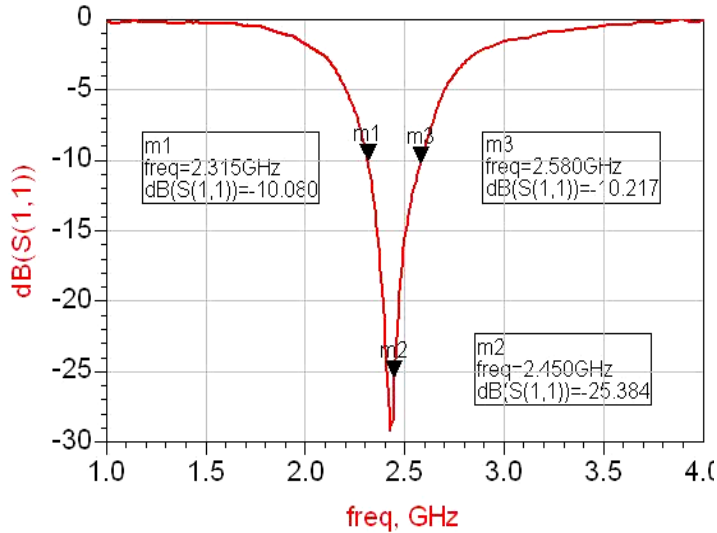
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Typical Electrical Characteristics (T=25°C)



Return Loss

*No Matching Circuit required



Storage Conditions

+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max

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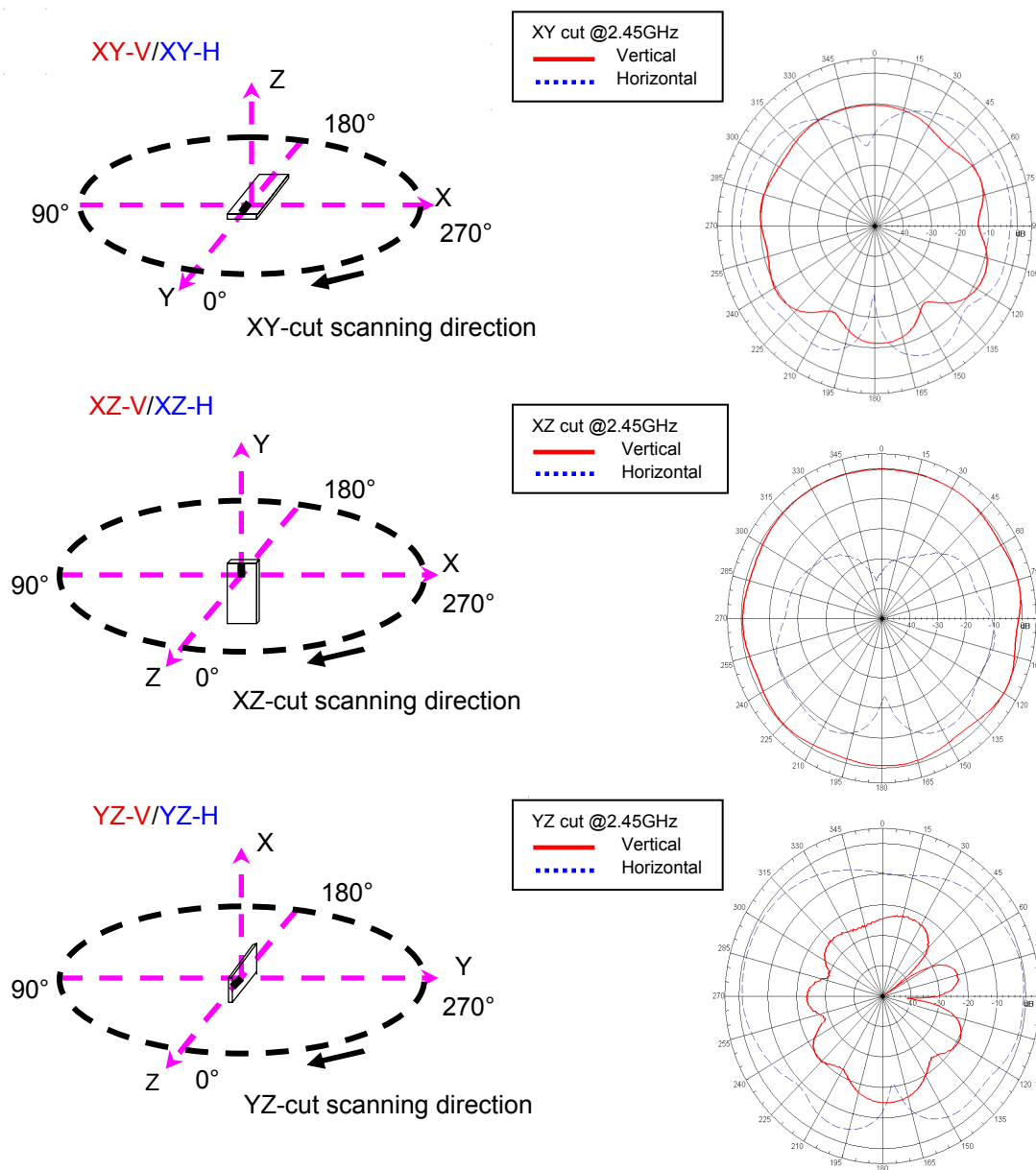
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Typical Radiation Patterns



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