

"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT18A0150

Detail Specification: 05/07/09

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General Specifications

Part Number	2450AT18A0150
Frequency Range	2375 - 2525 Mhz
Peak Gain	0.5 dBi typ. (XZ-V)
Average Gain	-0.5 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

Input Power	2W max.
Impedance	50 Ω
Reel Quantity	3,000
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity 45-75%RH, 12 mos. max*

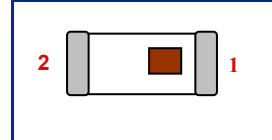
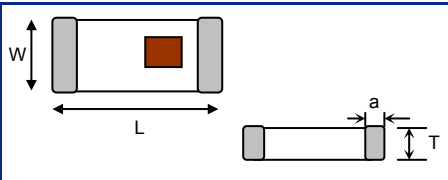
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450AT18A0150S
		T & R	Suffix = E	Eg. 2450AT18A0150E
	Termination Style	100% Tin	Suffix = None	Eg. 2450AT18A0150(E or S)
		Tin / Lead	Please consult Factory	

Terminal Configuration

No.	Function
1	Feeding Point
2	NC

Mechanical Dimensions

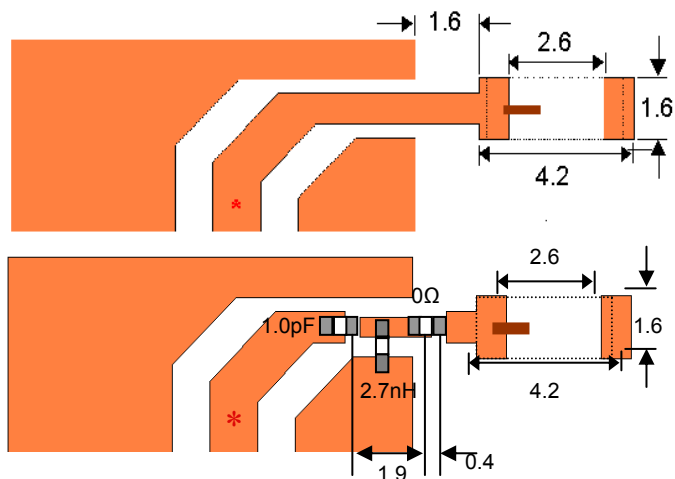
	In	mm
L	0.126 $\pm$ 0.008	3.20 $\pm$ 0.20
W	0.063 $\pm$ 0.008	1.60 $\pm$ 0.20
T	0.051 $\pm$ 0.004/-0.008	1.30 $\pm$ 0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



Mounting Considerations

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

*Line width should be designed to provide 50 Ω impedance matching characteristics.



a) Without Matching Circuits

b) With Matching Circuits

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www.johansontechnology.com

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"High Frequency Ceramic Solutions"

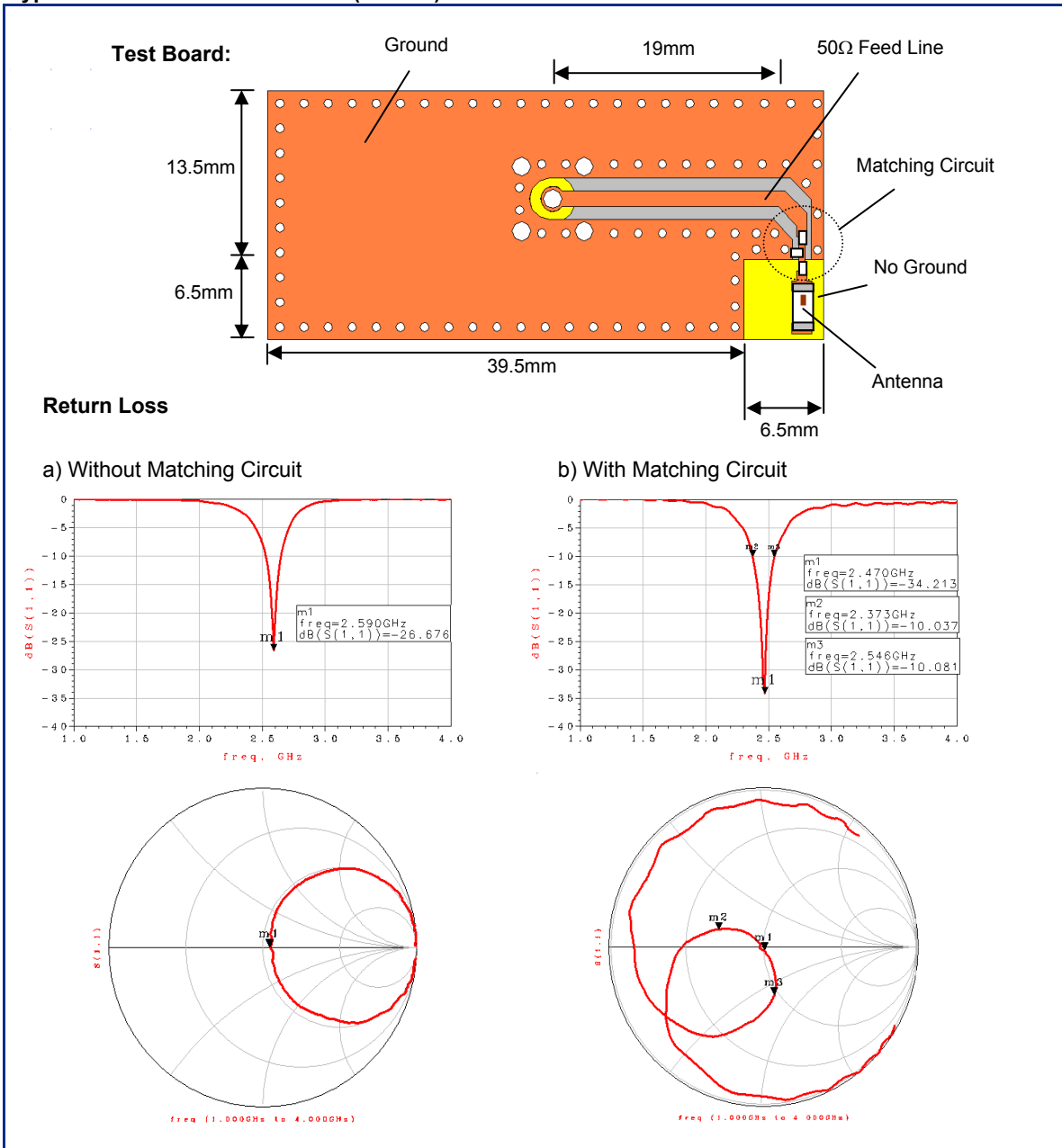
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Typical Electrical Characteristics (T=25°C)



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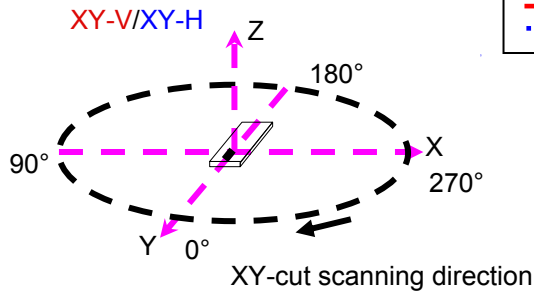
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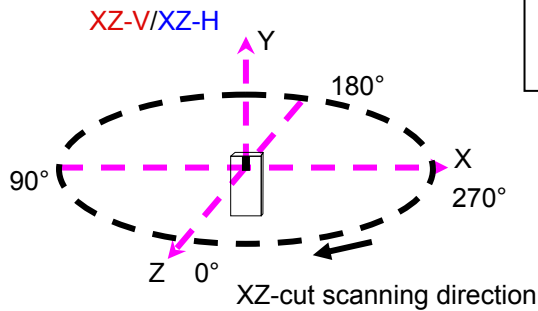
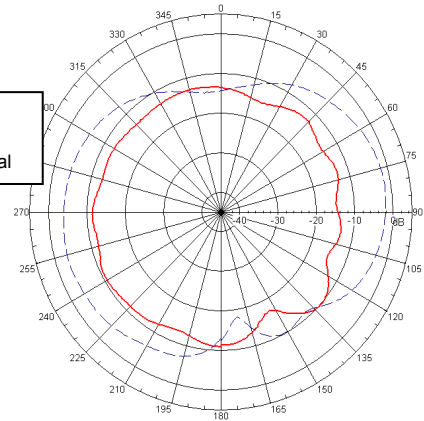
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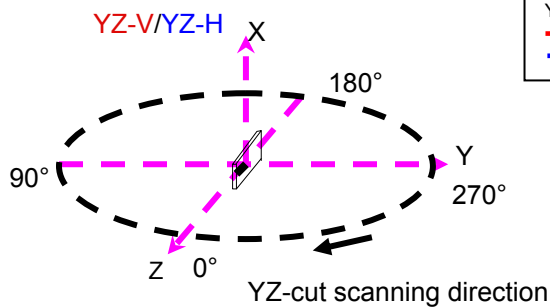
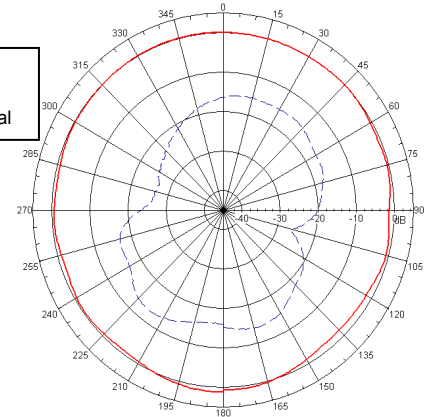
Typical Radiation Patterns



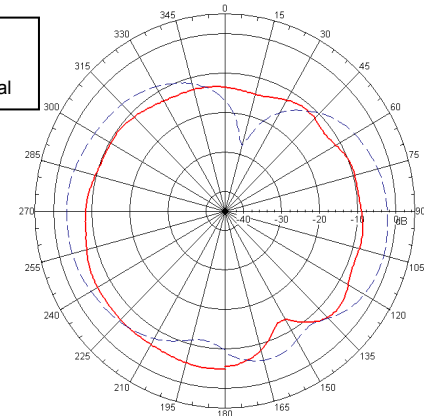
XY cut @2.45GHz
 — Vertical
 Horizontal



XZ cut @2.45GHz
 — Vertical
 Horizontal



YZ cut @2.45GHz
 — Vertical
 Horizontal



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