

"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 03/08/2016

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General Specifications

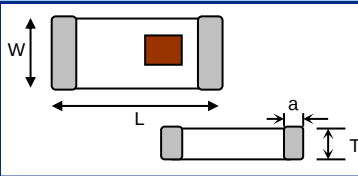
Part Number	2450AT18B100	Input Power	2W max.
Frequency Range	2400 - 2500 Mhz	Impedance	50 Ω
Peak Gain	0.5 dBi typ. (XZ-V)	Operating Temperature	-45°C to 125°C
Average Gain	-0.5 dBi typ. (XZ-V)	Reel Quantity	3,000
Return Loss	9.5 dB min.		

Part Number Explanation

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450AT18B100S
		T & R	Suffix = E	Eg. 2450AT18B100E
	Termination style	100% Tin	Suffix = None	Eg. 2450AT18B100(E or S)
		Tin / Lead	Please consult Factory	

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



Terminal Configuration

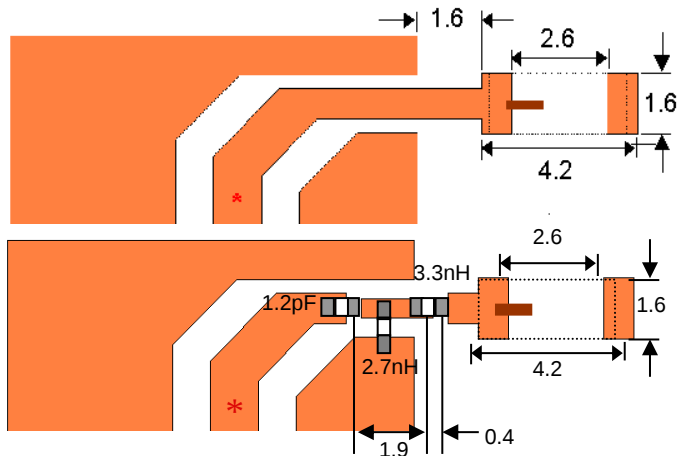
No.	Function
1	Feeding Point
2	NC



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

JTI P/N for Matching Circuit:
Cap (1.2pF): 500R07S1R2BV4T
Inductor (2.7nH): L-07C2N7SV6T
Inductor (3.3nH): L-07C3N3SV6T

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Ver.2.1

www.johansontechnology.com

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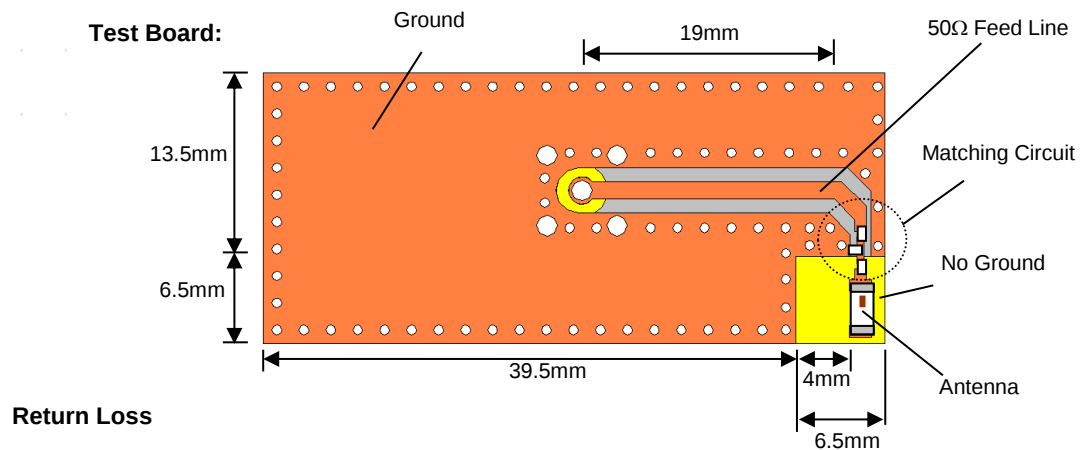
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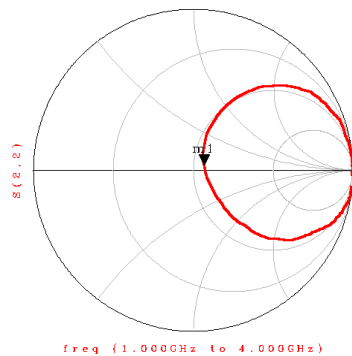
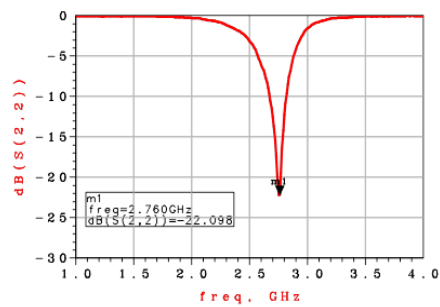
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Typical Electrical Characteristics (T=25°C)

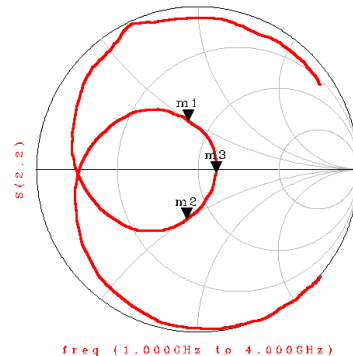
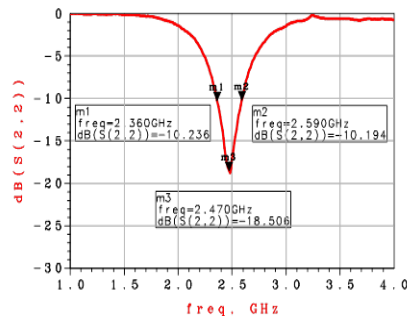


Return Loss

a) Without Matching Circuit



b) With Matching Circuit



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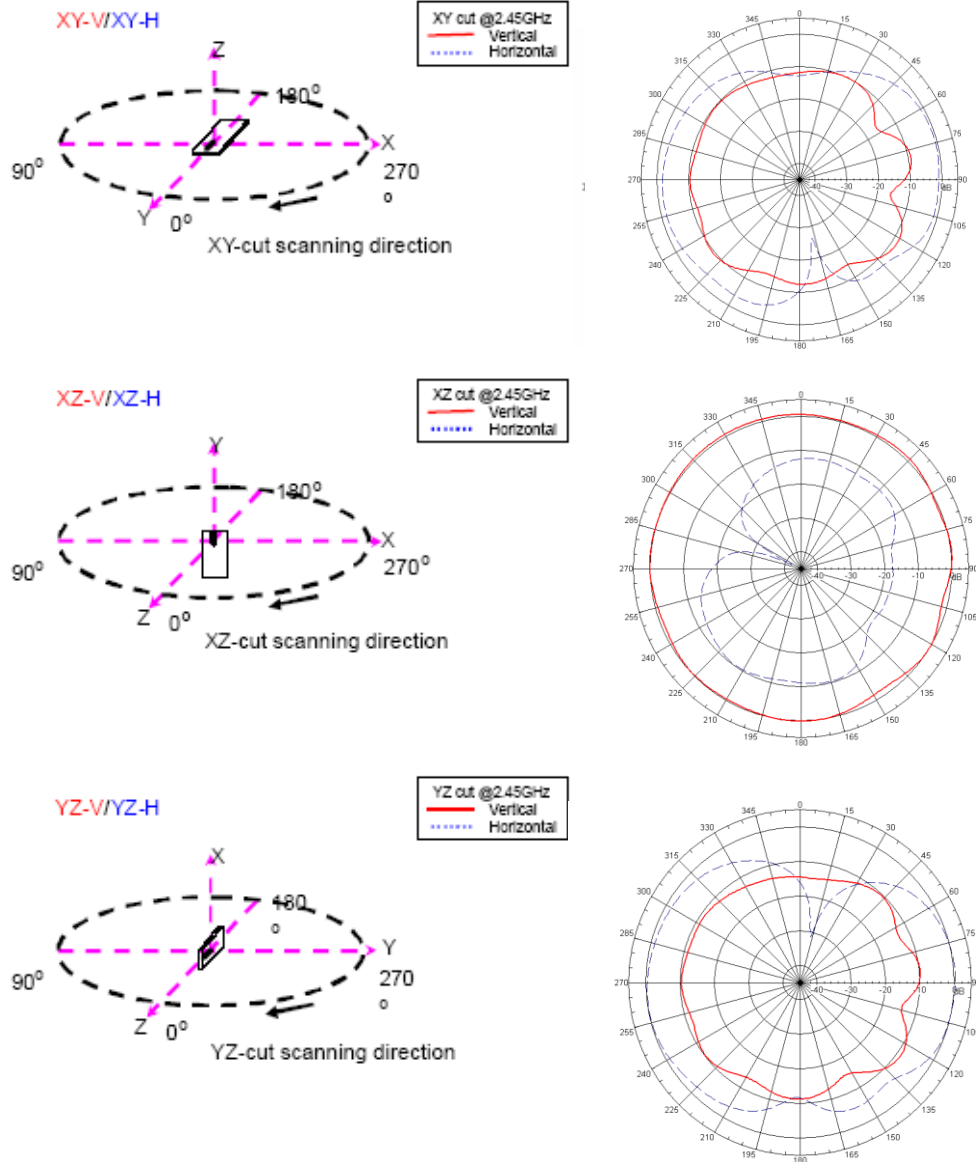
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Typical Radiation Patterns at 2.45GHz (+25C)



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Would you like Johanson Technology's RF team to help you design and tune our antenna on your board? Click on the link below:

Antenna layout review, tuning, and characterization services

<http://www.johansontechnology.com/ipc-antenna-services>

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/typical-soldering-profile

RoHS Compliance

www.johansontechnology.com/rohs-compliance

MSL Info

www.johansontechnology.com/msl-rating.html

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

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