

"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 03/08/2016

Page 1 of 4

General Specifications

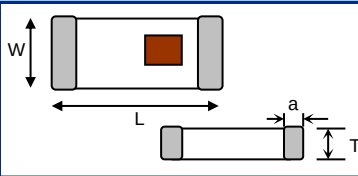
Part Number	2450AT18B100	Input Power	2W max.
Frequency Range	2400 - 2500 Mhz	Impedance	50 Ω
Peak Gain	0.5 dBi typ. (XZ-V)	Operating Temperature	-45°C to 125°C
Average Gain	-0.5 dBi typ. (XZ-V)	Reel Quantity	3,000
Return Loss	9.5 dB min.		

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

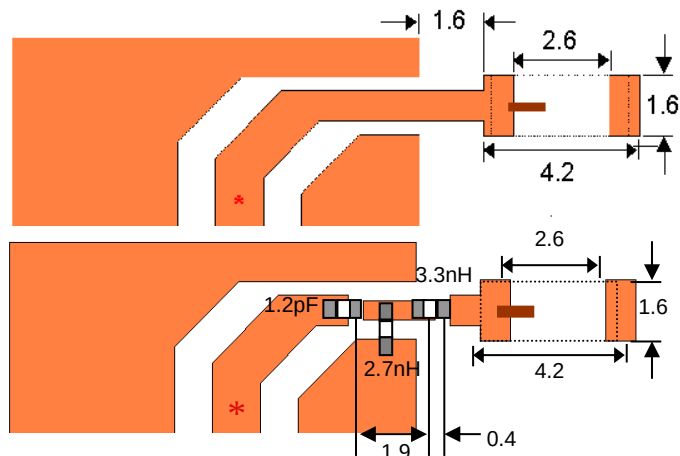
No.	Function
1	Feeding Point
2	NC



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

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver.2.1

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2016 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

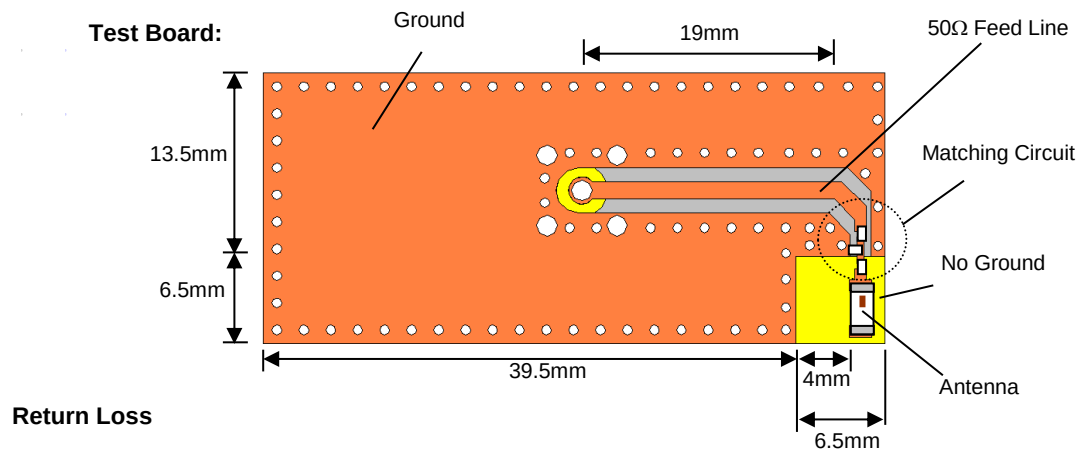
2450 MHz Antenna

Detail Specification: 03/08/2016

P/N 2450AT18B100

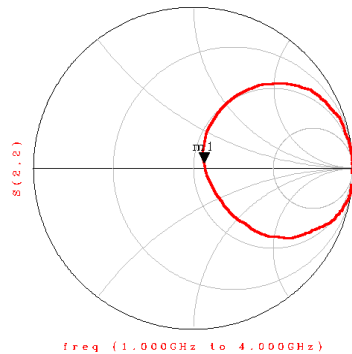
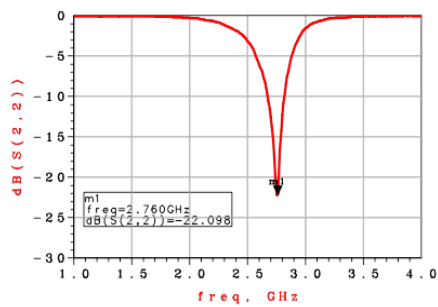
Page 2 of 4

Typical Electrical Characteristics (T=25°C)

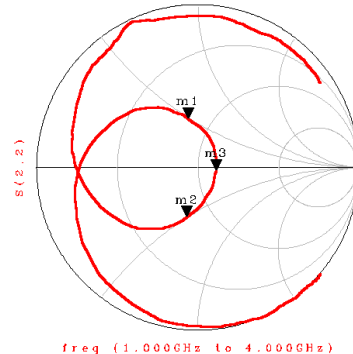
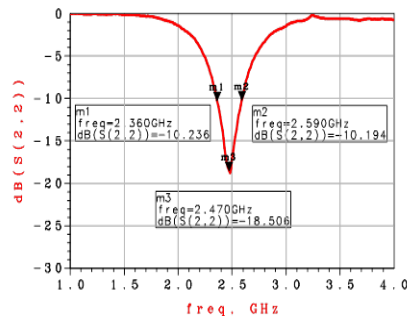


Return Loss

a) Without Matching Circuit



b) With Matching Circuit



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

"High Frequency Ceramic Solutions"

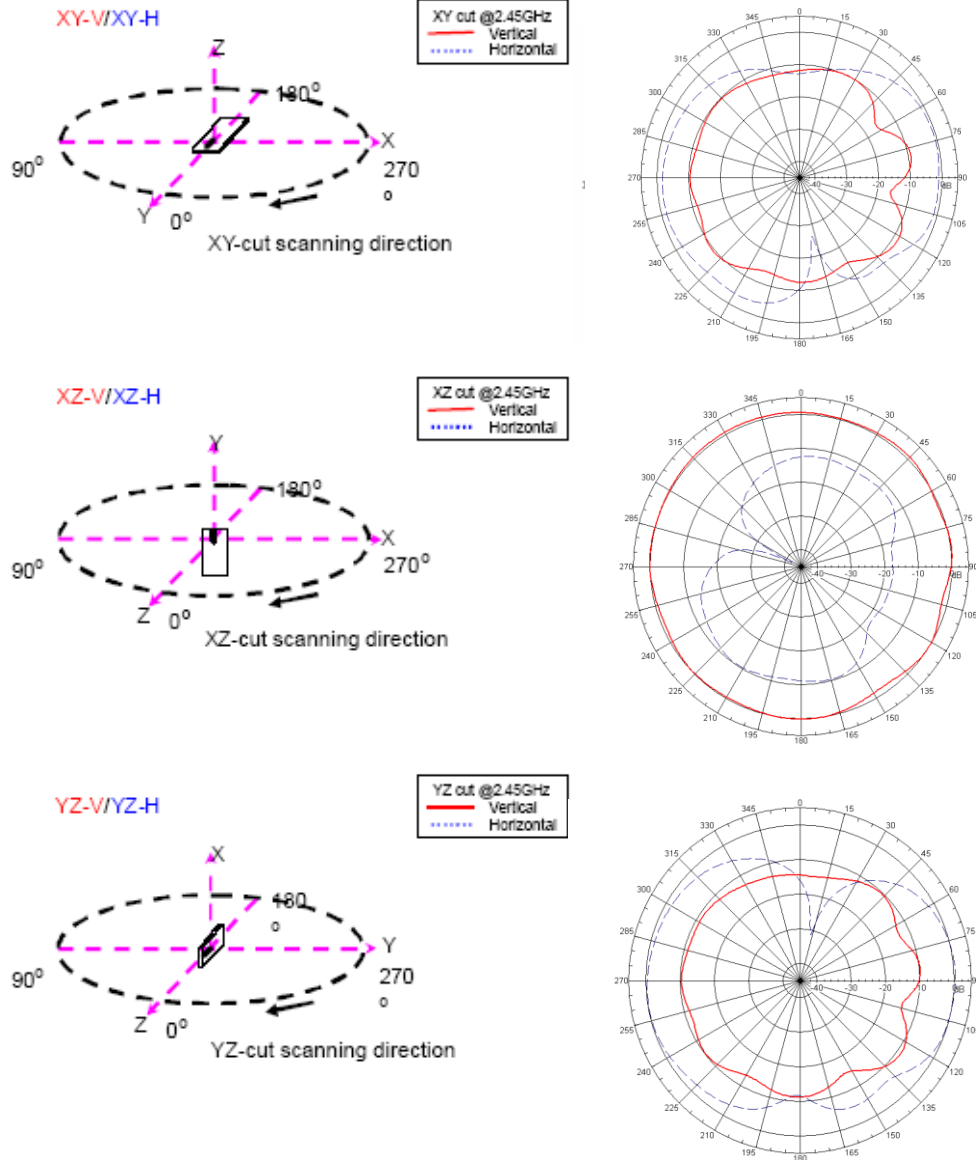
2450 MHz Antenna

Detail Specification: 03/08/2016

P/N 2450AT18B100

Page 3 of 4

Typical Radiation Patterns at 2.45GHz (+25C)



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.



"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 03/08/2016

Page 4 of 4

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

Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver.2.1

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2016 Johanson Technology, Inc. All Rights Reserved