

LEVITON PART NUMBER (Global)

0XA9935890000

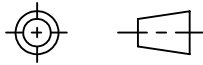
MANUFACTURER NAME	MANUFACTURER PART NUMBER
JOHANSON	2450AT18B100E

NOTES:

1. SINGLE SOURCE: ALL ALTERNATES MUST HAVE ENGINEERING APPROVAL
2. SEE FOLLOWING PAGES FOR PURCHASING INFO FROM DATA SHEET
3. ITEM MUST BE ROHS COMPLIANT

MANUFACTURING PART NUMBER EXPLANATION:
SEE MANUFACTURER DATA SHEET FOR DETAILS

NOTE: As of 09/23/2013 all new parts created to unified P/N system

STATUS: Production Release	REV.	DATE	ECO NUMBER	CHGD	APVD					
	A	01/26/2015	0000000	NRD	RY7					
	-	-	-	-	-					
	-	-	-	-	-					
	-	-	-	-	-					
	-	-	-	-	-					
			UNLESS OTHERWISE SPECIFIED: DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN INCHES. ALL ANGLES ARE IN DEGREES.		TITLE:					
	The information in this document is the exclusive PROPRIETARY property of LEVITON MFG. CO., INC. It is disclosed with the understanding that acceptance or review by the recipient constitutes an undertaking by the recipient: (1) to hold this information in strict confidence. (2) not to disclose, duplicate, copy, or use the information, in whole or in part, for any purpose other than that for which disclosed. Copyright 2009. Unpublished. All Rights Reserved.		TOLERANCES		ANTENNA CHIP 2.45GHz SMT					
			INCH	METRIC	DWN BY	NRD	01/26/2015	ENGRG	RY7	01/26/2015
			.XX ± .01 .XXX ± .005	.X ± .2 mm .XX ± .1 mm	CHK BY	RY7	01/26/2015	MFG	RY7	01/26/2015
ANGLES: ± 1/2°			DWG NO.							
THIRD ANGLE PROJECTION		OXA9935-D01								
		SIZE								
ALL PRINTED COPIES ARE UNCONTROLLED		PROJECT NO. 02636				REV				
		SCALE:1:1				A				
		SHEET 1 OF 4								



"High Frequency Ceramic Solutions"

2450 MHz Antenna

Detail Specification: 08/10/09

P/N 2450AT18B100

Page 1 of 3

General Specifications

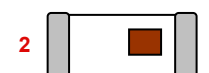
Part Number	2450AT18B100
Frequency Range	2400 - 2500 Mhz
Peak Gain	0.5 dBi typ. (XZ-V)
Average Gain	-0.5 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

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

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	

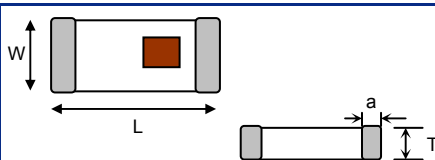
Terminal Configuration

No.	Function
1	Feeding Point
2	NC



Mechanical Dimensions

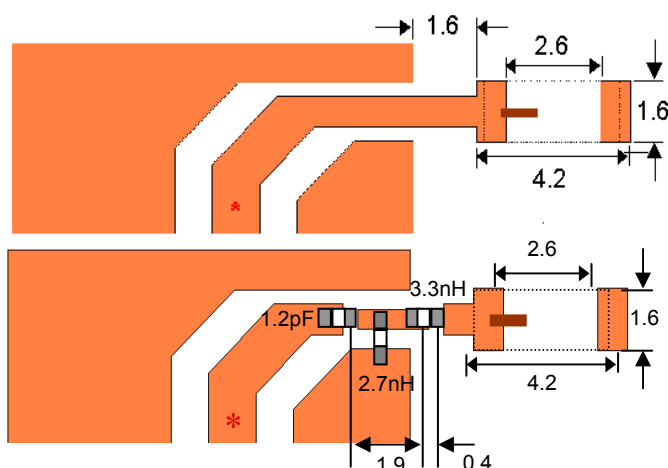
	In	mm
L	0.126 $\pm$ 0.008	3.20 $\pm$ 0.20
W	0.063 $\pm$ 0.008	1.60 $\pm$ 0.20
T	0.051 $\pm$ 0.004/-0.008	1.30 $\pm$ 0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



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

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

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www.johansontechnology.com

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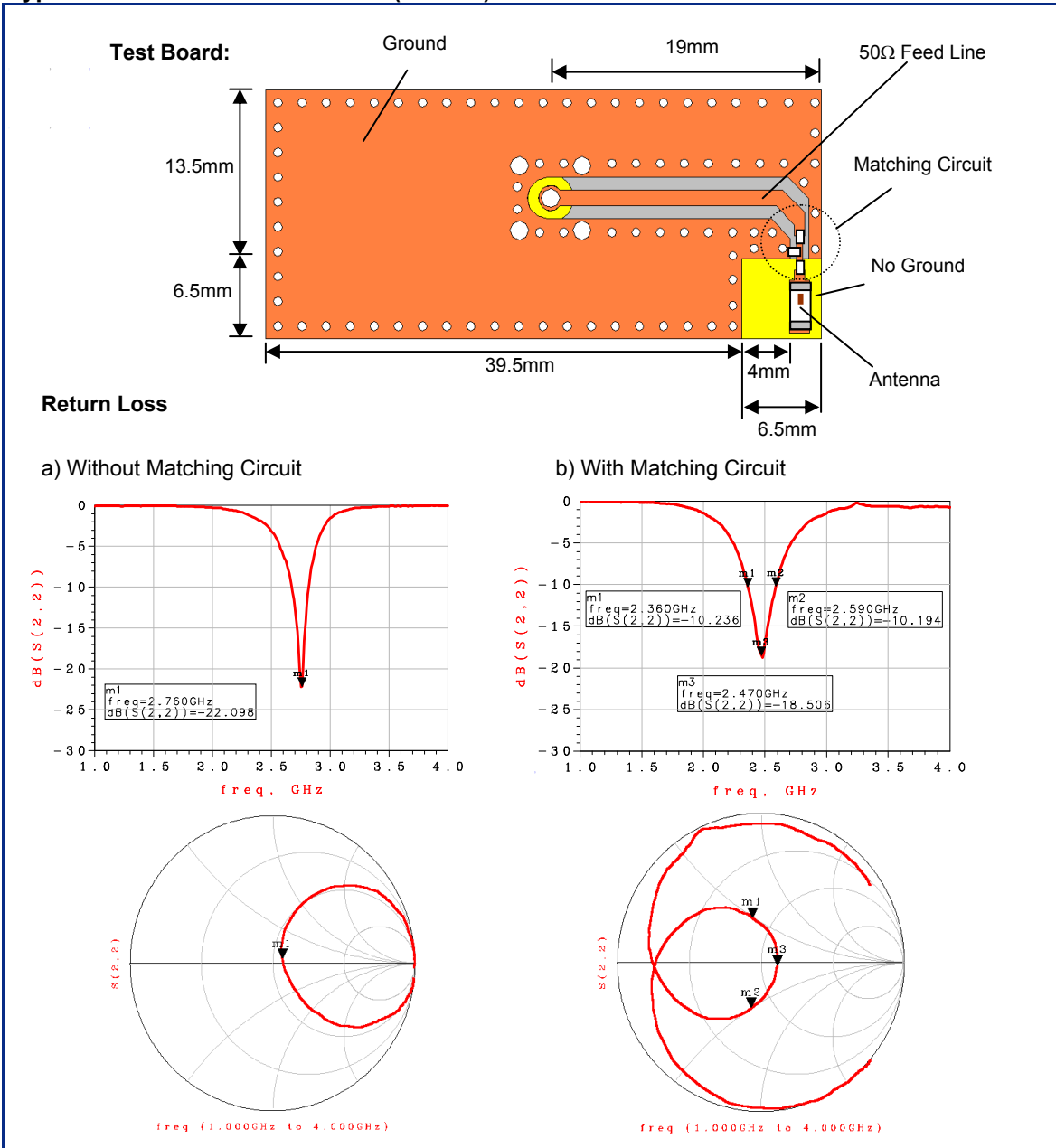
2450 MHz Antenna

Detail Specification: 08/10/09

P/N 2450AT18B100

Page 2 of 3

Typical Electrical Characteristics (T=25°C)



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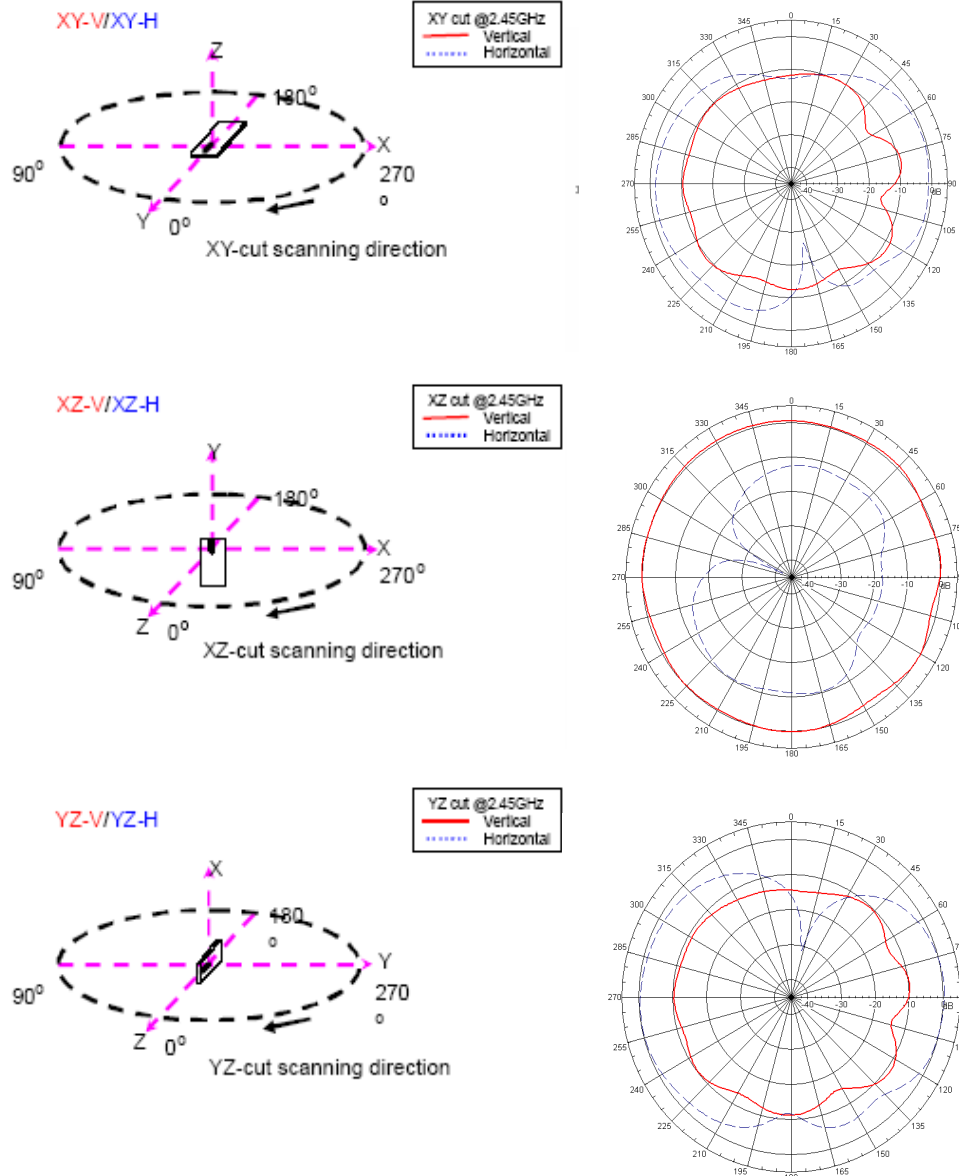
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Page 3 of 3

Typical Radiation Patterns



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