

"High Frequency Ceramic Solutions"

2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 01/25/2012

Page 1 of 3

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

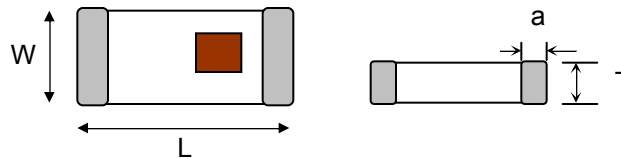
P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT42A100S
		T & R	Suffix = E	Eg. 2450AT42A100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT42A100(E or S)
	Evaluation Board	2450AT42A100-EB1SMA		

Terminal Configuration

	
No.	Function
1	Feeding Point
2	NC

Mechanical Dimensions

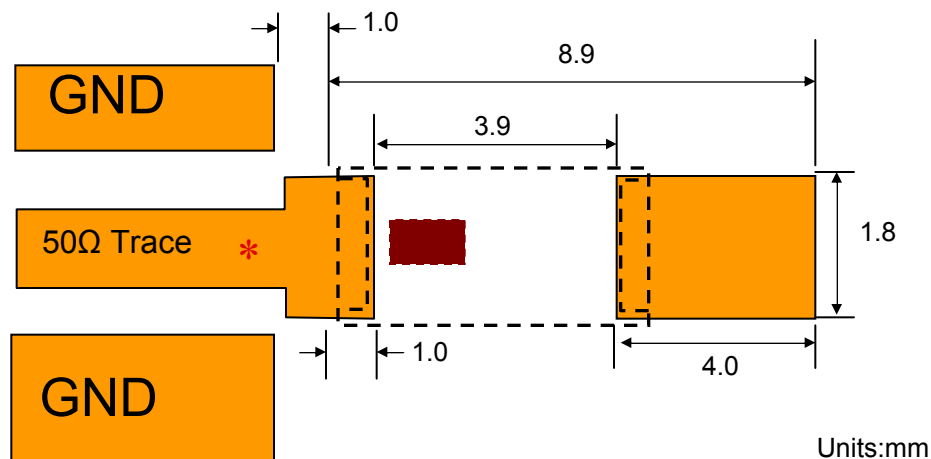
	In	mm
L	0.197 $\pm$ 0.008	5.00 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.043 $\pm$ 0.008	1.10 $\pm$ 0.20
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30



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



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"

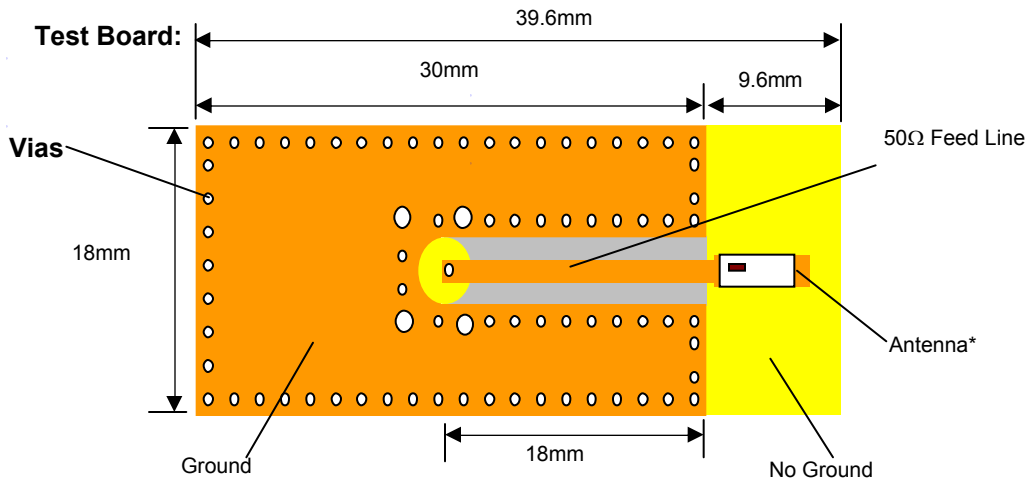
2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 01/25/2012

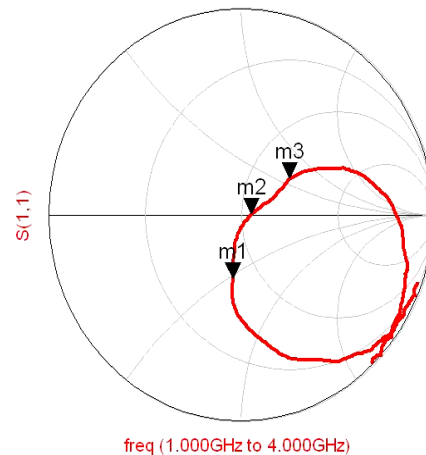
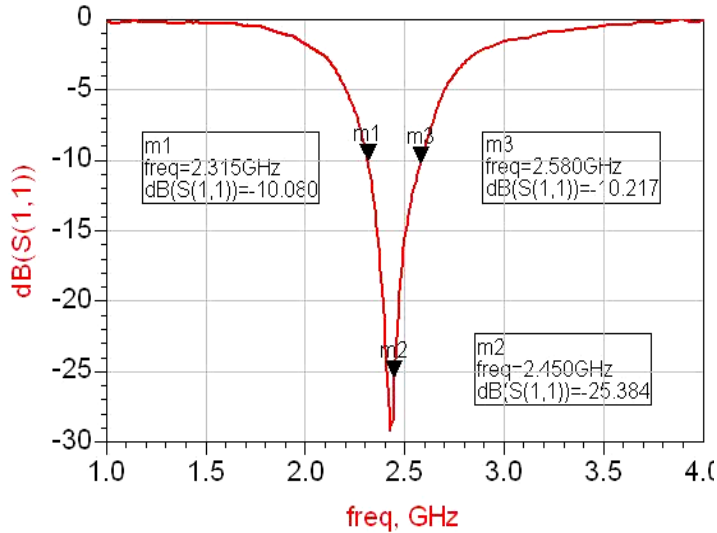
Page 2 of 3

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

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"

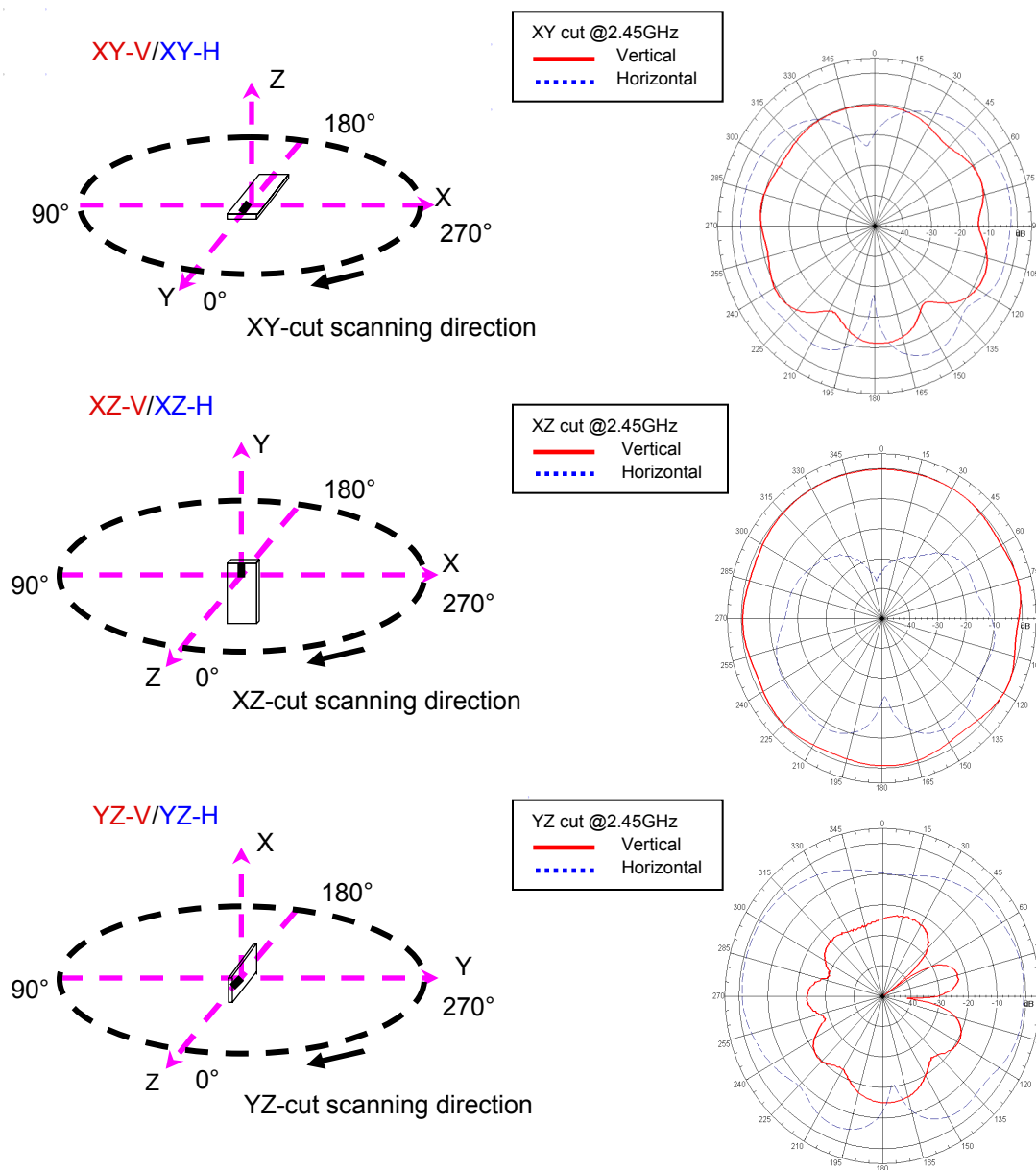
2.45 GHz Antenna

Detail Specification: 01/25/2012

P/N 2450AT42A100

Page 2 of 3

Typical Radiation Patterns



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

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



www.johansontechnology.com

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

2012 Johanson Technology, Inc. All Rights Reserved

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Johanson:

[2450AT18A0150E](#) [2450AT07A0100T](#) [2450AT42B100E](#) [2450AT42A100E](#) [2450AT43A100E](#) [2450AT43B100E](#)
[2450AT45A100E](#) [2450AT43F0100E](#)