Ultra-Miniature 2.4GHz Chip antenna 0.37mm max Thickness P/N 2450AT07A0100

Detail Specification: 2/21/2014 Page 1 of 4

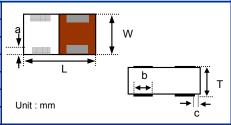
Genera		
Part Number	2450AT07A0100	
Frequency (MHz)	2400~2500	
Peak Gain (dBi typ.)	1.0 (XZ-Total)	
Average Gain (dBi typ.)	-1.5 (XZ-Total)	
Return Loss	6.5 dB min.	

Specifications					
	Input Power	2W max. (CW)			
	Impedance	50 Ω			
	Operating Temperature	-40 to +85°C			
	Recommended Storage Conditions	+5 ~ +35 °C, 18 mos max. Humidity 45~75%RH			

Part Number Explanation				
	Packaging Style	Bulk	Suffix = S	Eg. 2450AT07A0100S
P/N		T & R (10000pcs)	Suffix = T	Eg. 2450AT07A0100T
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT07A0100(T or S)
	Evaluation Board	2450AT07A0100-EB1SMA		

Τe	Terminal Configuration		
No.	Function		
1	Feed		
2	GND		
3	GND		
4	Feed		
	2 1		
	3 4		

Mechanical Dimensions				
	In	mm		
L	0.039 ± 0.004	1.00 ± 0.10		
W	0.020 ± 0.004	0.50 ± 0.10		
Т	0.014	0.37		
а	0.006 +.004/006	0.15 +0.1/-0.05		
b	0.010 +.004/006	0.25 +0.1/-0.05		
С	0.003 +.004/006	0.08 +0.1/-0.05		





Mounting Considerations

Mount these devices with brown mark facing up.

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

Units: mm

Solder

Land

It is recommended that the designer leave available slots for a "pi" (or shunt-seriesshunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different.

Go to:

http://johansontechnology.com/tuning and see how to obtain the new values.
If you need further help, contact our RF Applications Eng. Team at:

http://www.iohansontechnology.com/component/techquestion/2ltemid=4

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

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



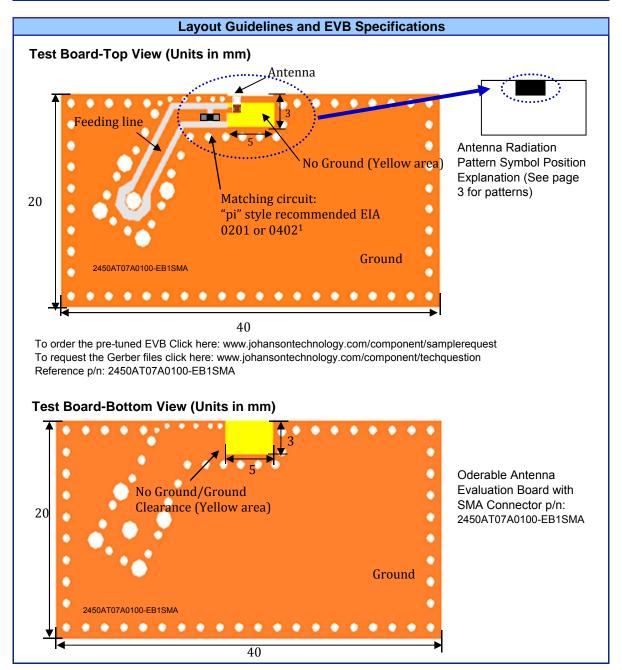
www.johansontechnology.com

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

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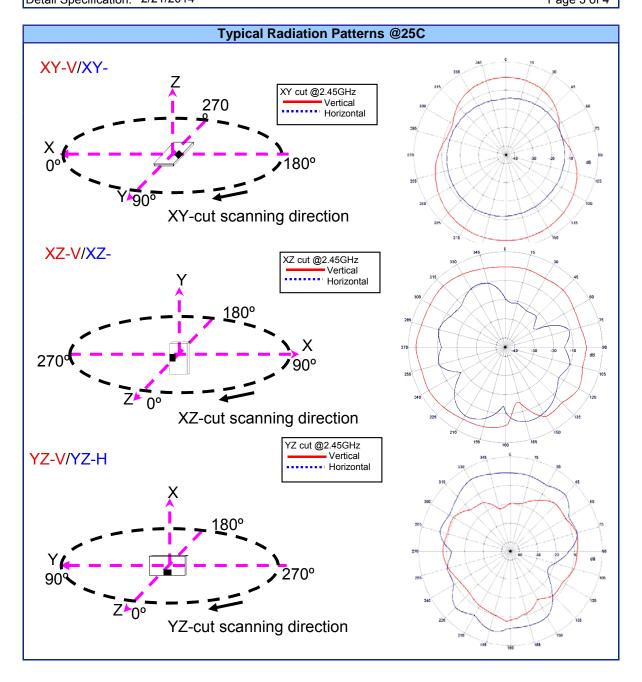
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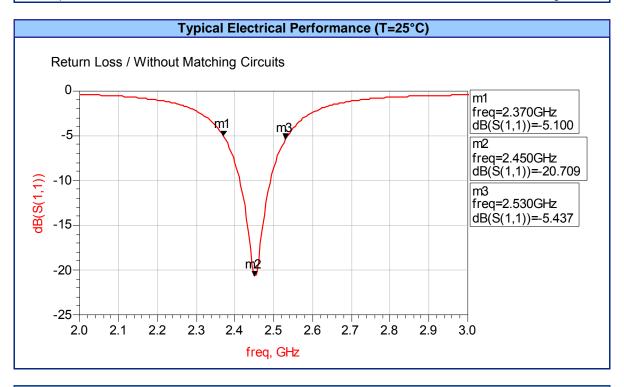
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Ultra-Miniature 2.4GHz Chip antenna 0.37mm max Thickness

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Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values)

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

RoHS Compliance

www.iohansontechnologv.com/technical-notes/rohs-compliance.html

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

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