2.4 GHz Antenna

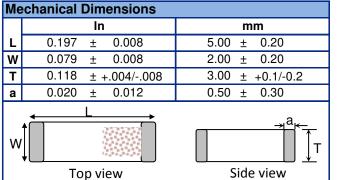
P/N 2450AT42D0100

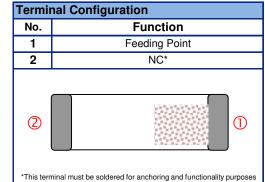
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General Specifications					
Part Number	2450AT42D0100	Input Power	2W max. (CW)		
Frequency (MHz)	2400 - 2500 MHz	Operating Temperature	-40 to +85°C		
Peak Gain (XZ-V)	0.5 dBi typ.	Recommended Storage	+5 to +35°C, 45~75%RH		
Average Gain (XZ-V)	-2.0 dBi typ.	Conditions	18 months max.		
Return Loss	6 dB min.	Reel Quanity	1,000		

Part Number Explanation						
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	eg. 2450AT42D0100S		
		T & R	Suffix = E	eg. 2450AT42D0100E		
		100% Tin	Suffix = E or S	eg. 2450AT42D0100(E or S)		
	Evaluation Board	2450AT42D0100-EB1SMA				





Mounting Considerations I (smaller keep out area) Units in mm Mount these devices with mark facing up. *Line width should be designed to. provide 50 Ω impedance matching characteristics. 1 nH 2.4 0.3 Want the layout file of this? Send us a message at: . http://www.johansontechnology.com/ask-aquestion JTI P/N for Matching Circuit:** Inductor (1.0nH):L-07C1N0SV6T Cap (1.0pF): 500R07S1N0BV4T **matching circuit and component values will depend on PCB layout, thickness, material, etc.



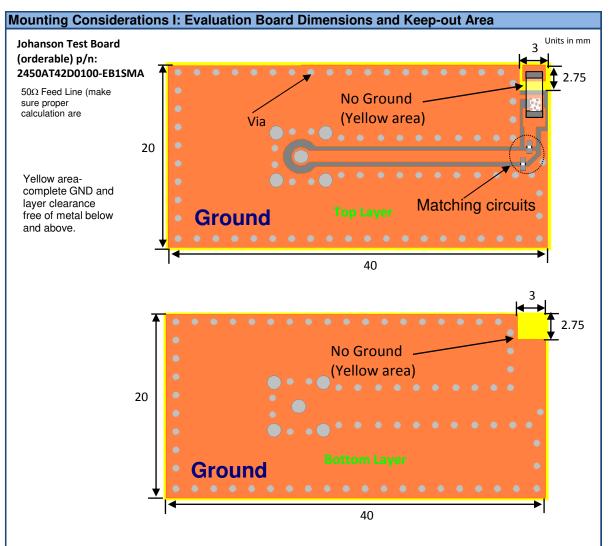
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**Note 2: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: www.johansontechnology.com/tuning and see how to obtain the new values. If you need further help, such as needing the layout file of the above, contact our RF Applications Eng. Team at: www.johansontechnology.com/ask-a-question

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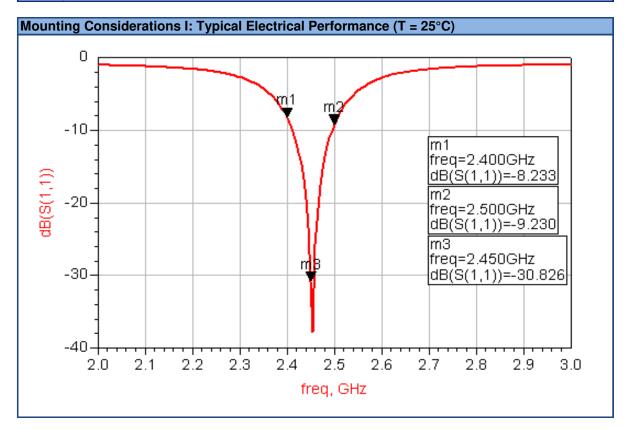
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Feel free to contact us if you have any questions regarding the implementation of this antenna in your PCB's layout. We'll be happy to guide you in how to maximize the antenna's performance.

You can contact us here:

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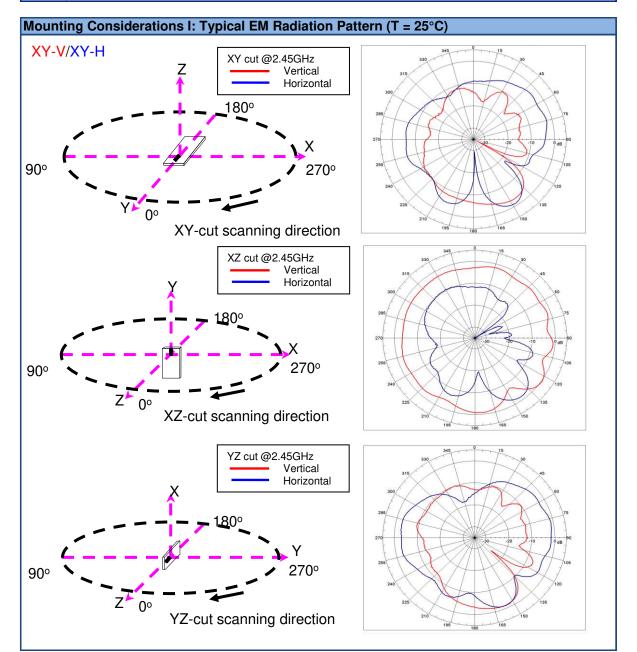
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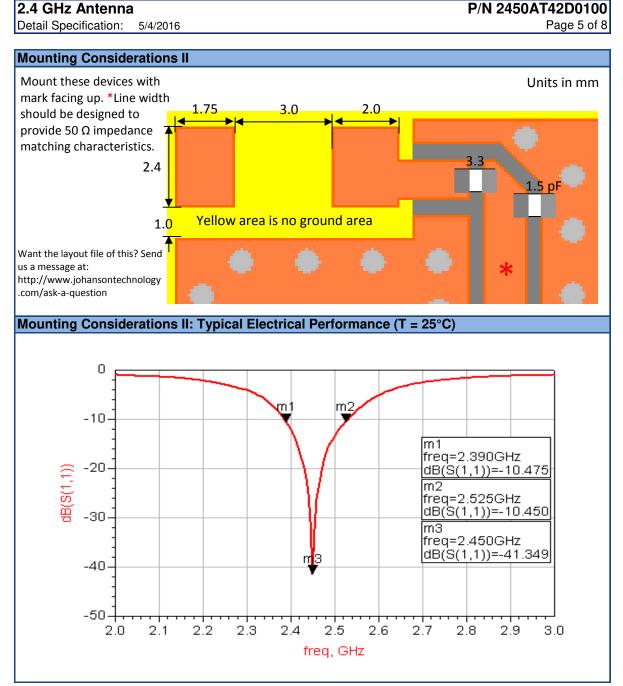
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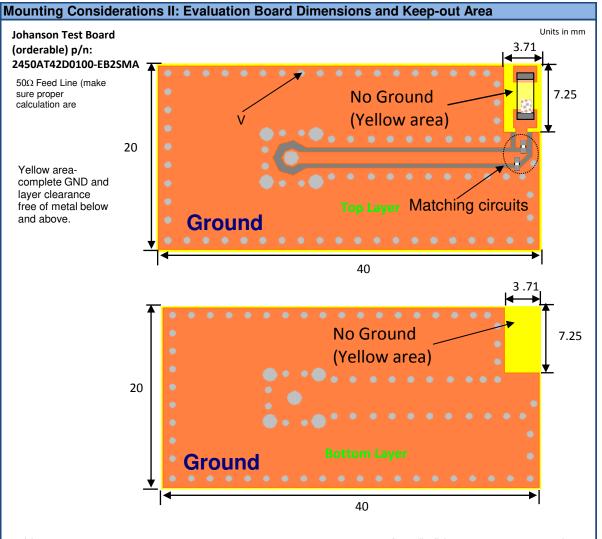
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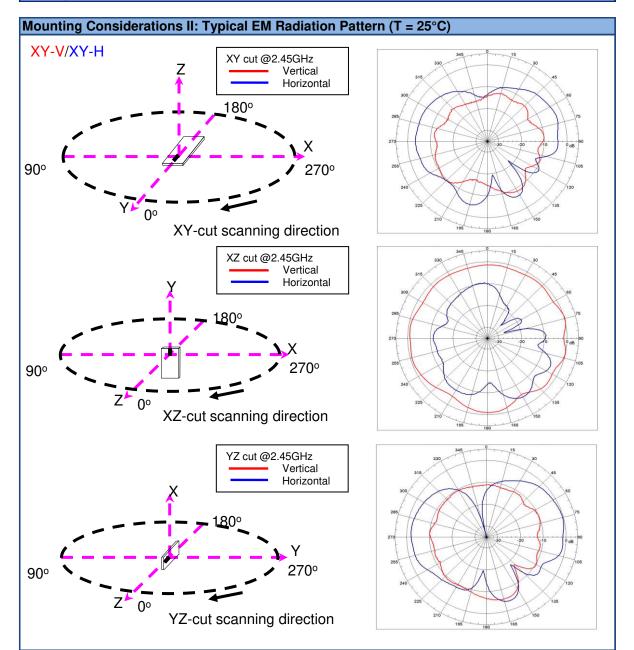
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