AEC-Q200 Qualification Available

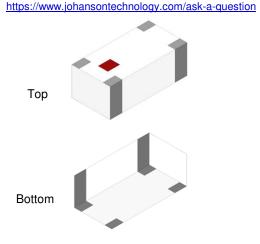
2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

P/N 2450AT18D0100

Page 1 of 7
Let us help you with the antenna design, optimization, and tuning!

Edge Mount Design			
	Detail Specification:	5/26/2021	

General Specifications	eneral Specifications			
Part Number	2450AT18D0100E			
Frequency (GHz)	2.4 - 2.5			
Peak Gain (dBi)	1.5 typ. (XZ-total)			
Average Gain (dBi)	-1.0 typ. (XZ-total)			
Radiated Efficiency ¹	72%			
Return Loss (dB)	10 min.			
Impedance (Ω)	50			
Input Power (W)	3 max. (CW)			
Operating Temperature	-40 to +125°C			
Recommended Storage	+5 to +35°C			
Conditions and Period for	Humidity 45 - 75% RH			
inused Product on T&R	18 months max.			
Reel Quantity (pcs./reel)	3,000			



¹Efficiency measured on Johanson's evaluation board PN 2450AT18D0100-EB1SMA

Part Number Explanation						
	Packing Style	Bulk (loose pcs.)	Suffix = S	e.g. 2450AT18D0100S		
P/N Suffix		T&R	Suffix = E	e.g. 2450AT18D0100E		
P/IN SUIIIX		100% Tin	Suffix = None	e.g. 2450AT18D0100(E or S)		
	Evaluation Board	2450AT18D0100-EB1SMA				

Terminal Configuration				
No.	Function 1	Function 2		
1	FEED	GND		
2	GND	GND		
3	GND	GND FEED		
4	GND			
1		3		

Function 1: Antenna fed from left Function 2: Antenna fed from right

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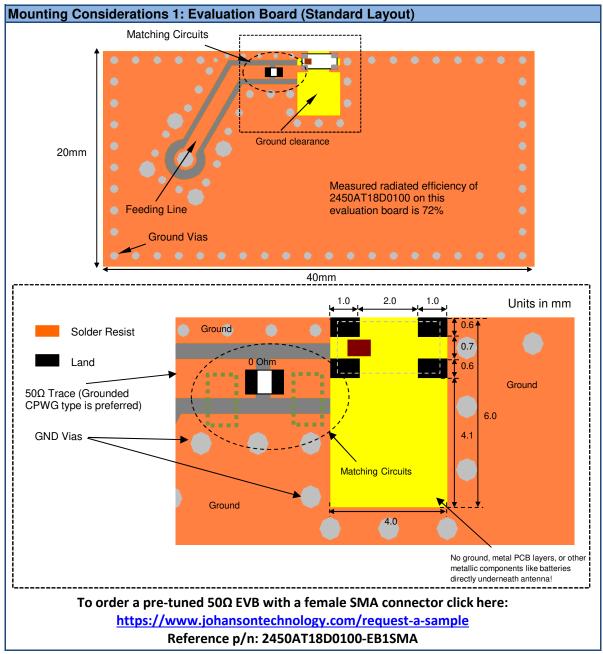
Ver. 4.4

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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

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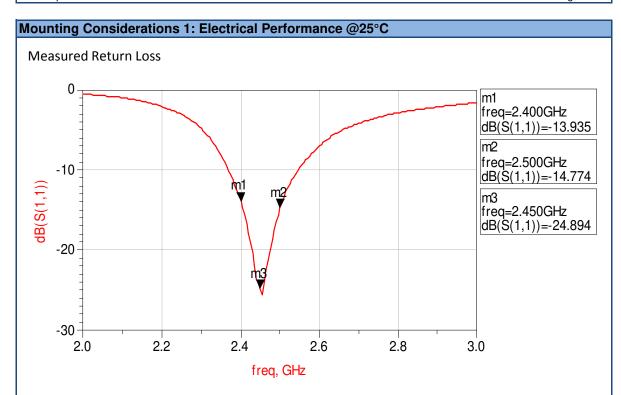


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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

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Would you like the antenna layout? Have antenna tuning issues?

Please 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 to maximize the antenna's performance.

Contact our applications engineers at:

https://www.johansontechnology.com/ask-a-question

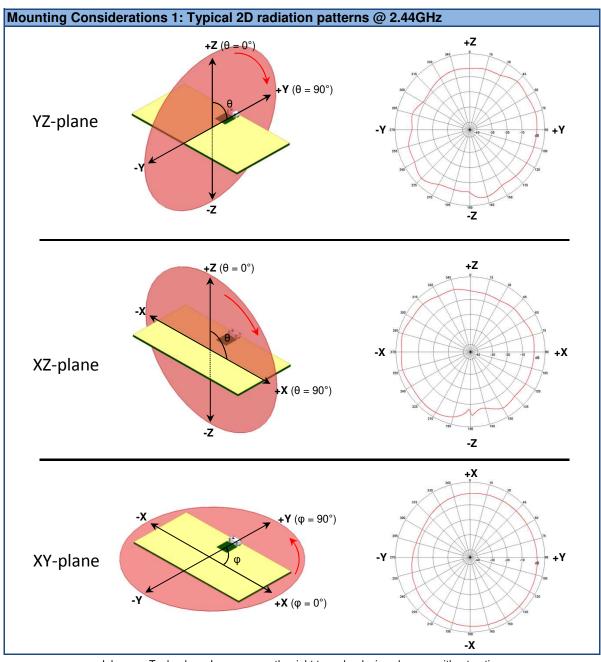
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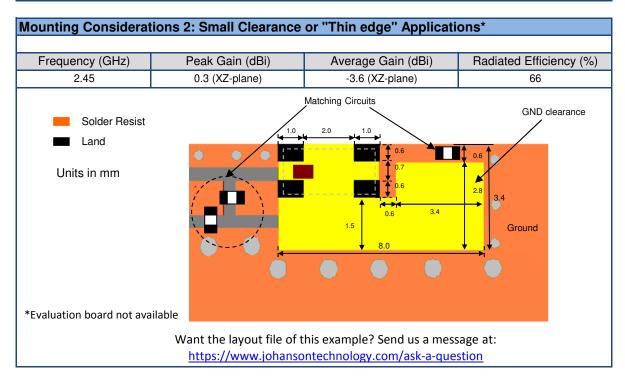
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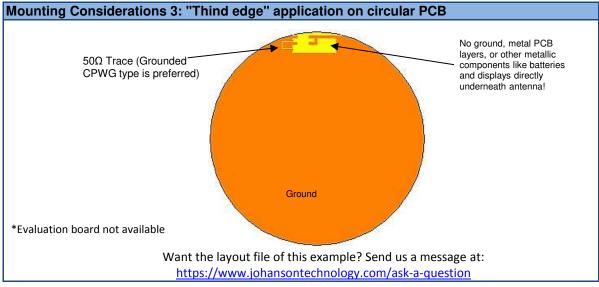
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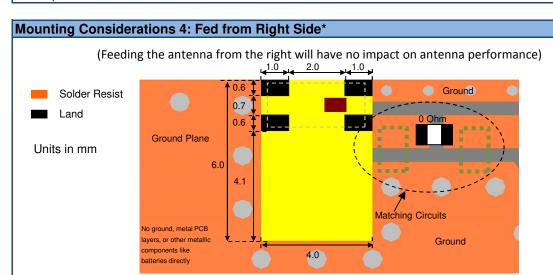
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^{*}Evaluation board not available

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Antenna tuning, optimization, and validation services:

https://www.johansontechnology.com/ipc-antenna-services

For more antennas and to download measured S-parameters, go to:

https://www.johansontechnology.com/antennas

Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

https://www.johansontechnology.com/msl-rating

Packaging Information

https://www.johansontechnology.com/tape-reel-packaging

For layout review contact our applications team at:

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RoHS Compliance

https://www.johansontechnology.com/rohs-compliance

Recommended Storage Condition and Max Shelf Life

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