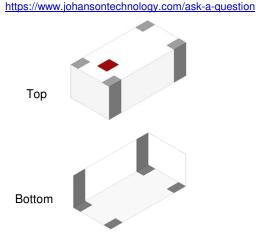
2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design, AEC-Q200 Qualified

P/N 2450AT18D0100E-AEC

Detail Specification: 5/26/2021 Page 1 of 7

Let us help you with the antenna design, optimization, and tuning!

General Specifications		
Part Number	2450AT18D0100E-AEC	
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 Conditions and Period for unused Product on T&R	+5 to +35°C	
	Humidity 45 - 75% RH	
	18 months max.	
Reel Quantity (pcs./reel)	3,000	



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

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

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

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

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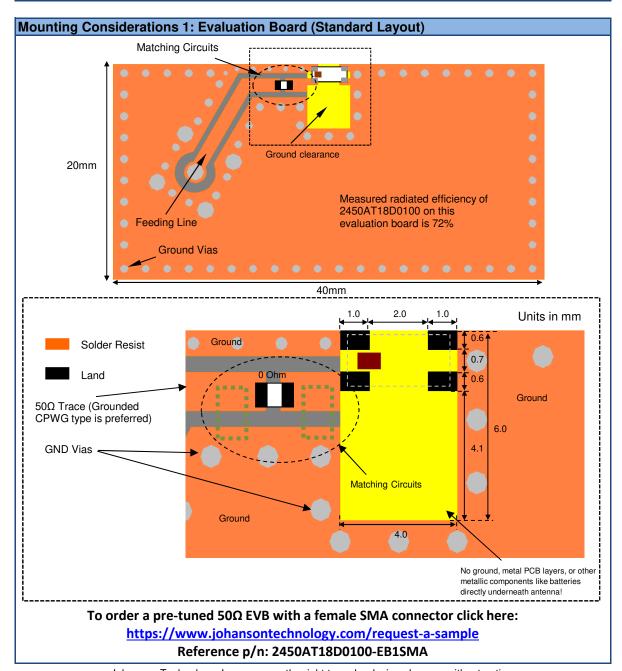
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Ver. 4.4

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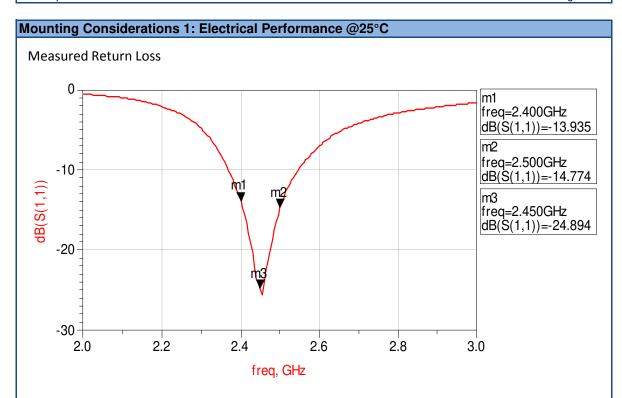


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Would you like the antenna layout? Have antenna tuning issues?

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

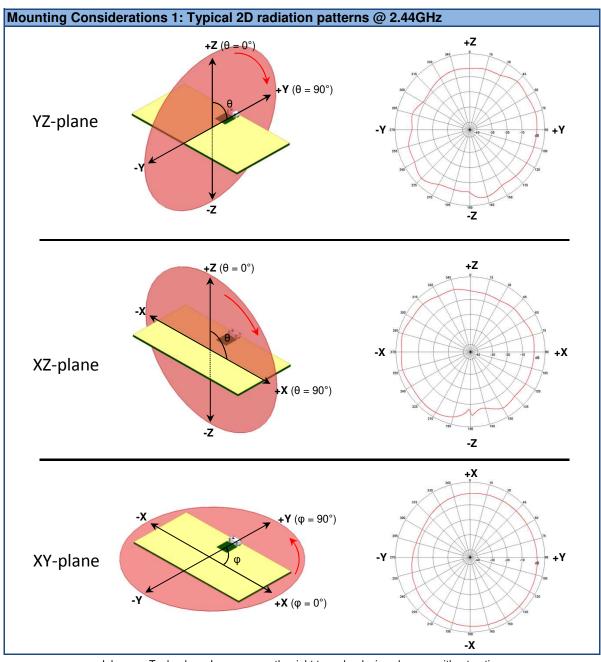
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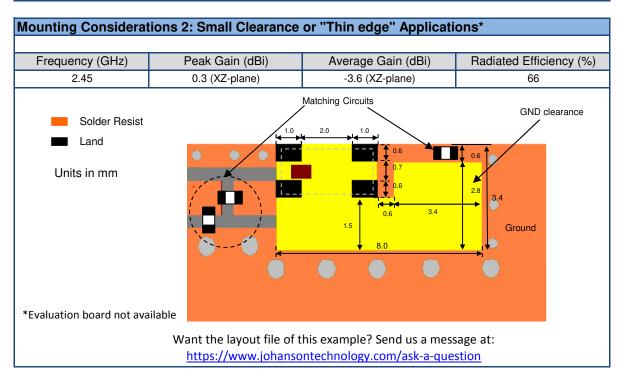
Ver. 4.4

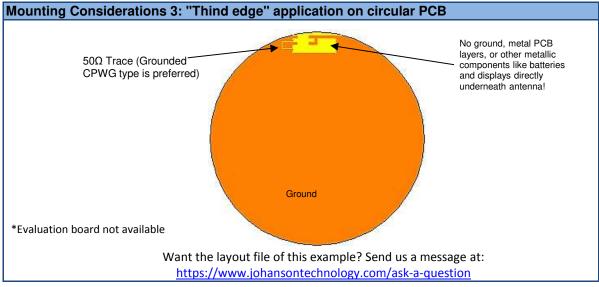
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Detail Specification: 5/26/2021 Page 5 of 7





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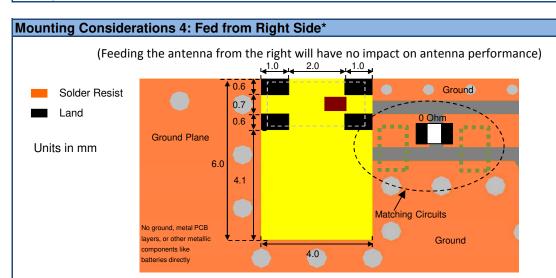
Ver. 4.4

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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design, AEC-Q200 Qualified

P/N 2450AT18D0100E-AEC

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^{*}Evaluation board not available

Would you like the layout file of the above? 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.

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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:

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

RoHS Compliance

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

Recommended Storage Condition and Max Shelf Life

https://www.johansontechnology.com/recommended-storage-conditions

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