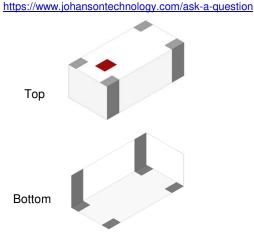
AEC-Q200 Qualification Available

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

P/N 2450AT18D0100

Detail Specification:	5/26/2021		Page 1 of 7
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General 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			
unused 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					
P/N Suffix	Packing Style	Bulk (loose pcs.)	Suffix = S	e.g. 2450AT18D0100S	
		T&R	Suffix = E	e.g. 2450AT18D0100E	
		100% Tin	Suffix = None	e.g. 2450AT18D0100(E or S)	
	Evaluation Board	2450AT18D0100-EB1SMA			

L W T a b	In 0.126 ± 0.008 0.063 ± 0.008 0.047 ± 0.004 0.012 +0.004 / -0.008 0.020 ± 0.008	mm 3.20 ± 0.2 1.60 ± 0.2 1.20 ± 0.1 0.30 +0.1/-0.2 0.50 ± 0.2			
W T a	0.063 ± 0.008 0.047 ± 0.004 0.012 +0.004 / -0.008	1.60 ± 0.2 1.20 ± 0.1 0.30 +0.1 / -0.2			
T a	0.047 ± 0.004 0.012 +0.004 / -0.008	1.20 ± 0.1 0.30 +0.1 / -0.2			
а	0.012 +0.004 / -0.008	0.30 +0.1 / -0.2			
b	0.020 ± 0.008	0.50 ± 0.2]		
			•		
a the second sec					

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

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

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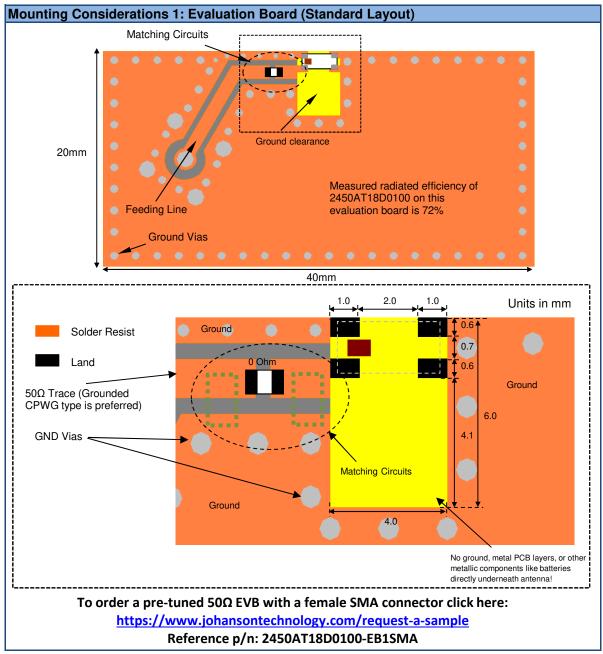
Ver. 4.4

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

P/N 2450AT18D0100

Detail Specification: 5/26/2021 Page 2 of 7



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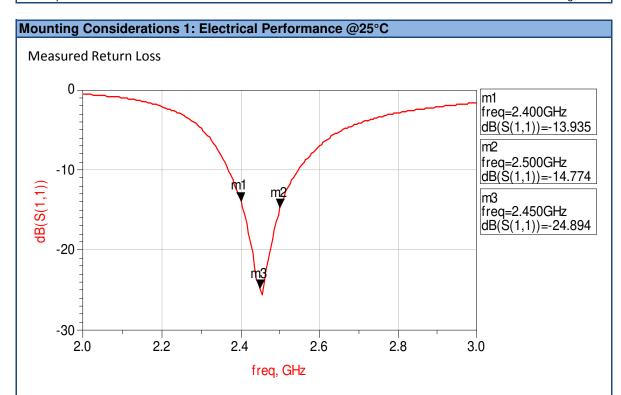


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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

P/N 2450AT18D0100

Detail Specification: 5/26/2021 Page 3 of 7



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

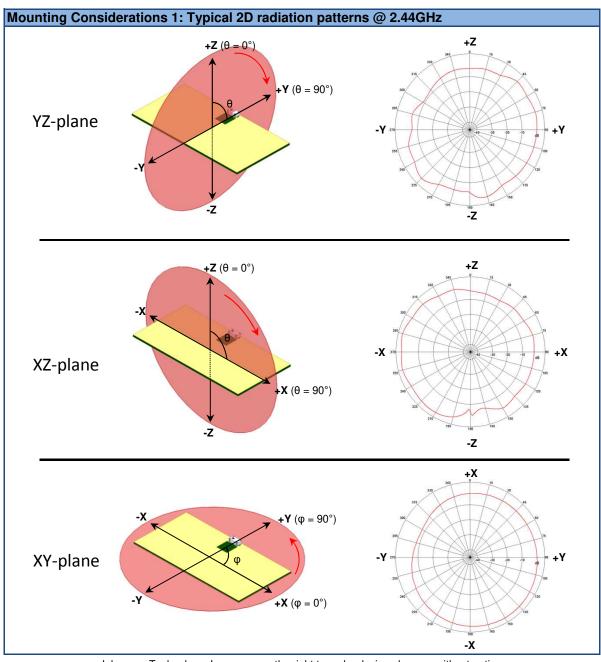
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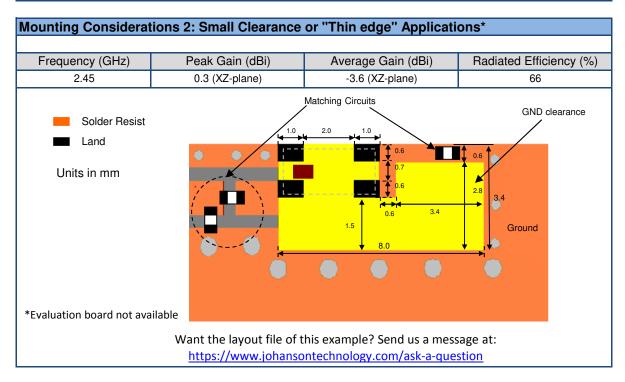
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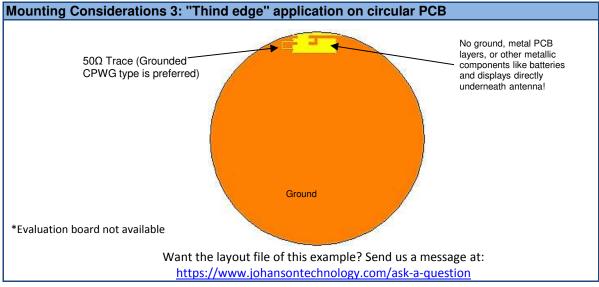
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Detail Specification: 5/26/2021 Page 5 of 7





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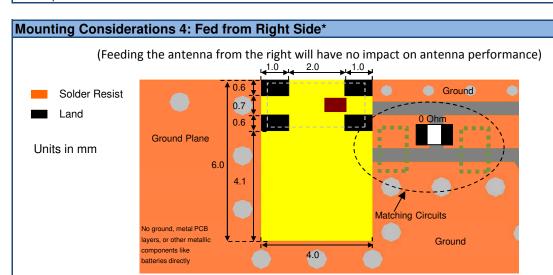
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Detail Specification: 5/26/2021 Page 6 of 7



^{*}Evaluation board not available

Would you like the layout file of the above? Have antenna tuning issues?

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P/N 2450AT18D0100

Detail Specification: 5/26/2021

Page 7 of 7

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

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MSL Info

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Packaging Information

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RoHS Compliance

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

Recommended Storage Condition and Max Shelf Life

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