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

P/N 2450AT18D0100

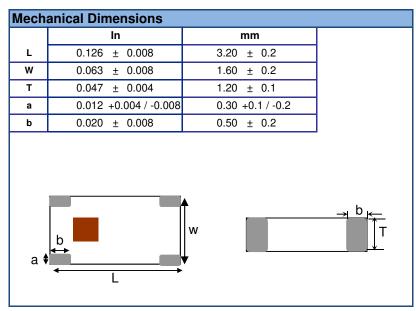
Detail Specification: 2/11/2021

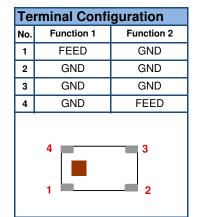
Page 1 of 7

		Let us help you with the antenna	design, optimization, and tuning!	
General Specification	าร	https://www.johansontechnology.com/ask-a-question		
Part Number	2450AT18D0100			
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.	Recommended Storage Conditions and Period for	+5 to +35°C	
Impedance (Ω)	50		Humidity 45 - 75% RH	
Input Power (W)	3 max. (CW)	unused Product on T&R	18 months max.	
Operating Temperature	-40 to +125°C	Quantity/Reel (pcs.)	3,000	
¹ Efficiency measured on Johanson's evaluation board PN 2450AT18D0100-EB1SMA				

Part Number Explanation

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





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

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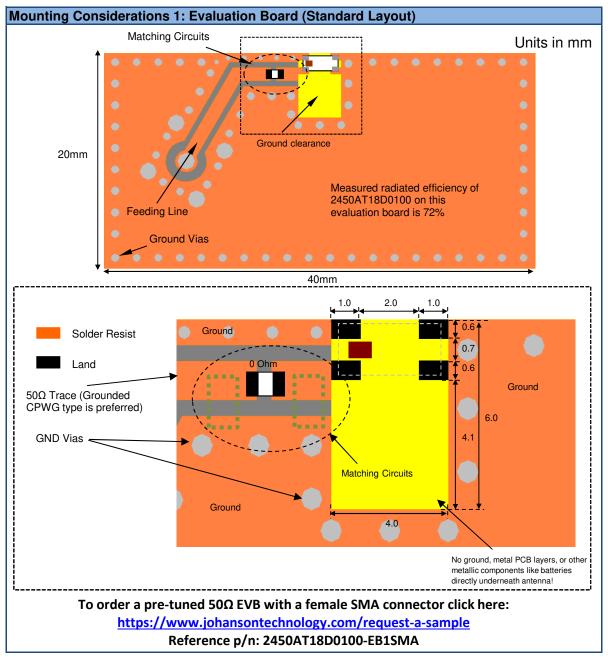
Ver. 4.3

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

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Ver. 4.3

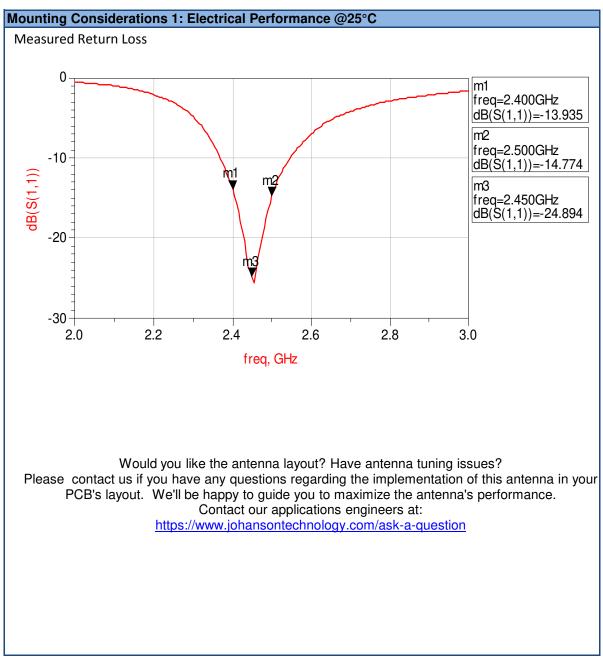
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P/N 2450AT18D0100

Edge Mount Design

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P/N 2450AT18D0100

Edge Mount Design Detail Specification: 2/11/2021

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Mounting Considerations 1: Typical 2D radiation patterns @ 2.44GHz +Z $+\mathbf{Z}(\theta = 0^{\circ})$ **•Υ** (θ = 90°) YZ-plane -Z +Z +Z ($\theta = 0^{\circ}$) -X X XZ-plane **+X** (θ = 90°) -Z -Z +X -X $\mathbf{Y} (\mathbf{\phi} = 90^\circ)$ XY-plane

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+X (φ = 0°)



-X



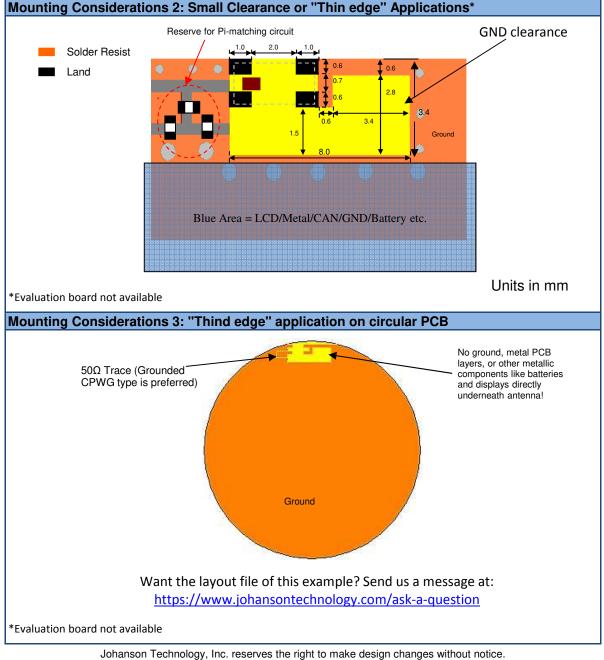
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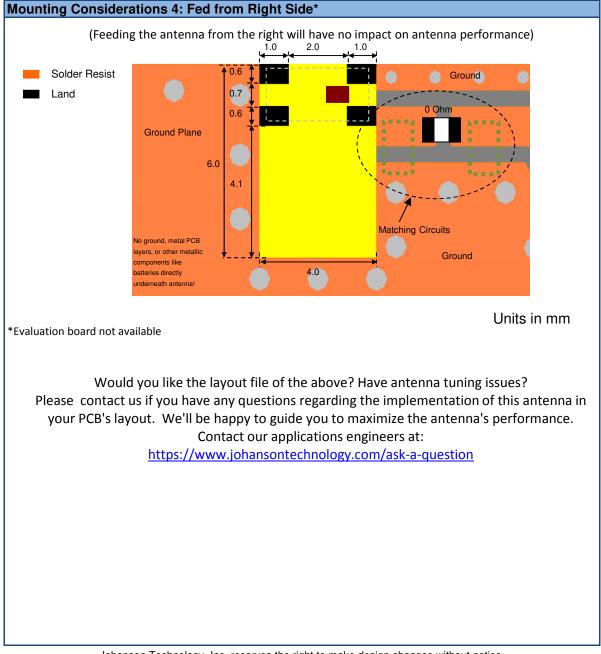
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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

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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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Ver. 4.3