AEC-Q200 Qualification Available

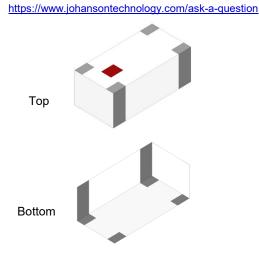
2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

New Global P/N 2450AT18D0100001 Legacy P/N 2450AT18D0100

Detail Specification: 8/24/2022 Page 1 of 7

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

General Specifications			
New Global Part Number	2450AT18D0100001		
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 2450AT18D0100001CE1

Part Numbe	art Number Explanation (See last page for more info on new and legacy part numbers)			
P/N Suffix	Packing Style	Bulk (loose pcs.)	Suffix = B	e.g. 2450AT18D0100001B
		T&R	Suffix = E	e.g. 2450AT18D0100001E
		100% Tin	Suffix = None	e.g. 2450AT18D0100001(B or S)
	Evaluation Board	2450AT18D0100001CE1		

Mechanical Dimensions			
	In	mm	
L	0.126 ± 0.008	3.20 ± 0.2	
W	0.063 ± 0.008	1.60 ± 0.2	
Т	0.047 ± 0.004	1.20 ± 0.1	
а	0.012 +0.004 / -0.008	0.30 +0.1 / -0.2	
b	0.020 ± 0.008	0.50 ± 0.2	

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

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

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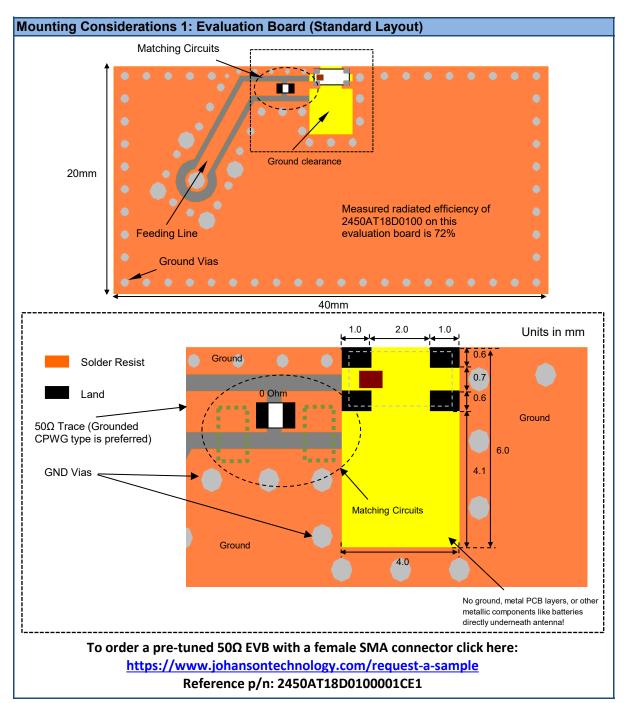
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821



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

New Global P/N 2450AT18D0100001 Legacy P/N 2450AT18D0100

Detail Specification: 8/24/2022 Page 2 of 7



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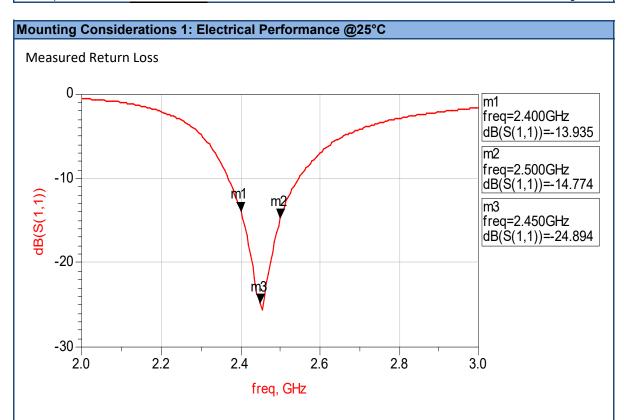


https://www.johansontechnology.com

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

New Global P/N 2450AT18D0100001 Legacy P/N 2450AT18D0100

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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

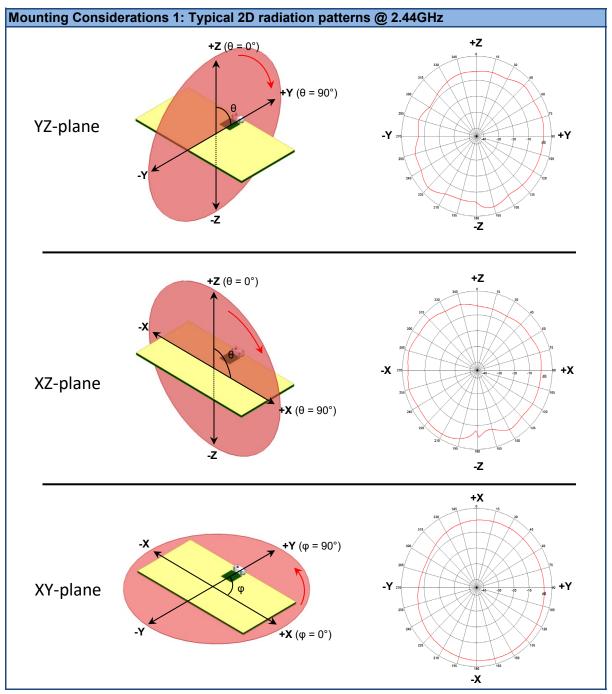
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2.45 GHz SMD Antenna, EIA 1206, Detuning resilient, Edge Mount Design

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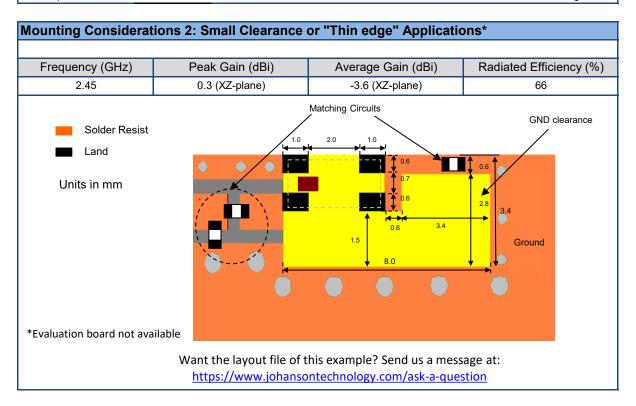
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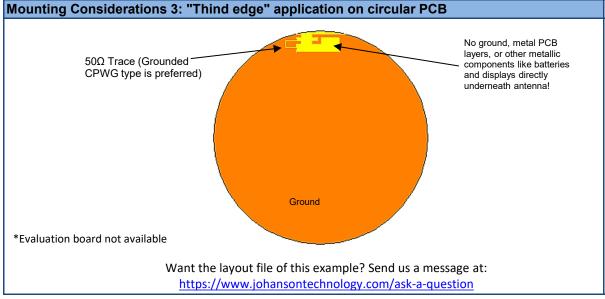
JOHANSON TECHNOLOGY

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

New Global P/N 2450AT18D0100001 Legacy P/N 2450AT18D0100

Detail Specification: 8/24/2022 Page 5 of 7





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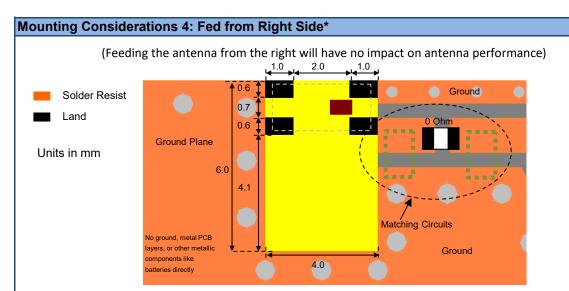
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^{*}Evaluation board not available

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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:

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

Johanson's New Global Part Number Schema

Johanson has instituted a new Global Part Numbering (GPN) system. **Only the part number is changing**. The parts are produced with the exact same materials, manufacturing processes, manufacturing controls, dimensions, physical attributes and testing as the parts supplied with the legacy part numbers.

A database for part number crosses can be accessed at:

https://www.johansontechnology.com/pn-search

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