AEC-Q200 Qualification Available

2.4GHz Chip Antenna, SMD

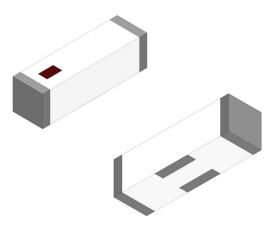
P/N 2450AT43B100

Dogo 1

Detail Specification: 3/18/2019

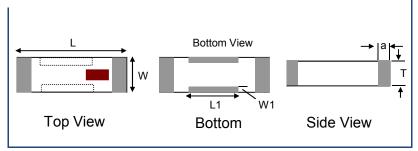
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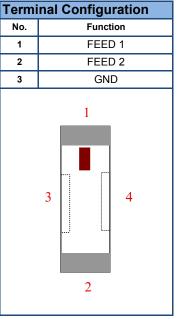
General Specifications			
Part Number	2450AT43B100		
Frequency (GHz)	2.4 - 2.5		
Peak Gain (dBi)	1.3 typ.		
Average Gain (dBi)	-0.5 typ.		
Return Loss (dB)	9.5 min.		
Impedance (Ω)	50		
Input Power (W)	2 max. (CW)		
Operating Temperature	-40 to +85°C		
Recommended Storage Conditions and Period for unused T&R Product	+5 to +35°C		
	Humidity 45 - 75% RH		
	18 months max.		
Reel Quantity (pcs/reel)	1000		



Part Number Explanation						
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 2450AT43B100S		
		Tray	Suffix = E	e.g. 2450AT43B100E		
		100% Tin	Suffix = E or S	e.g. 2450AT43B100(E or S)		
	Evaluation Board	2450AT43B100-EB1SMA				

Mechanical Dimensions						
	In	mm				
L	0.276 ± 0.008	7.00 ± 0.2				
w	0.079 ± 0.008	2.00 ± 0.2				
L1	0.102 ± 0.008	2.60 ± 0.2				
W1	0.020 ± 0.008	0.50 ± 0.2				
Т	0.079 +0.004 / -0.008	2.00 +0.1 / -0.2				
а	0.020 ± 0.012	0.50 ± 0.3				





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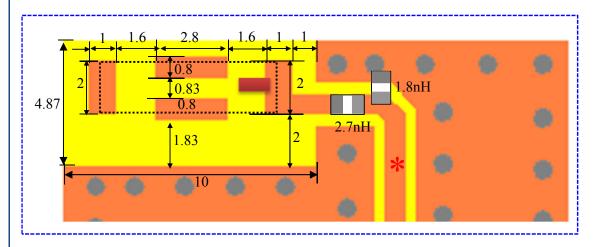
Detail Specification:

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Mounting Considerations 1: Evaluation Board Ground Antenna No Ground

Note 1: Pins 2, 3 & 4, although "NC", must be soldered to their corresponding PCB pads for proper electrical operation



*50Ω GCPW transmission line recommended

Units in mm

Would you like the layout file?

Contact our engineers at: https://www.johansontechnology.com/ask-a-question

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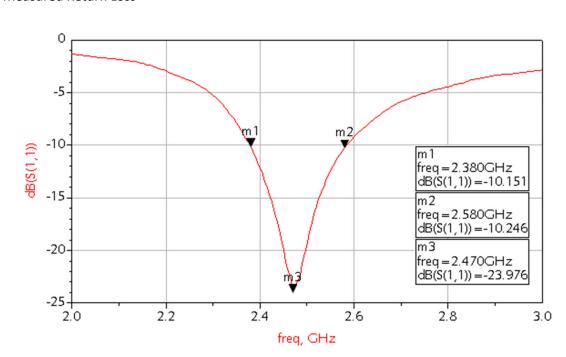
Detail Specification:

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Mounting Considerations 1: Electrical Performance @25°C

Measured Return Loss



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:

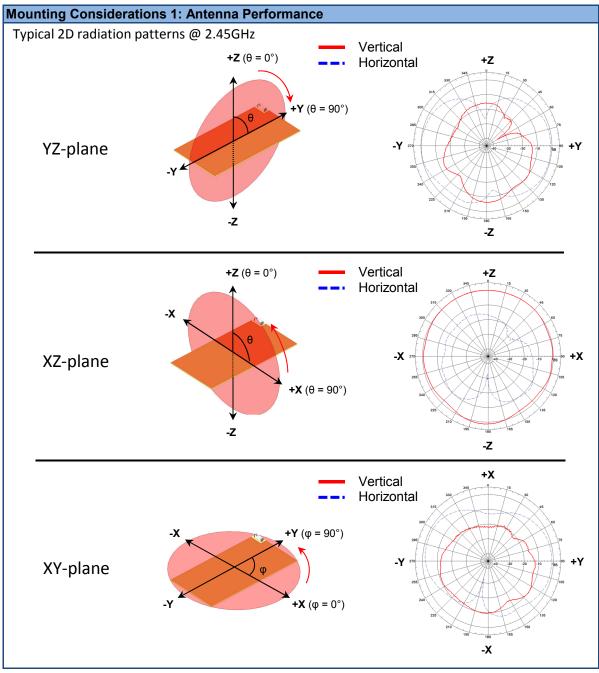
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2.4GHz Chip Antenna, SMD P/N 2450AT43B100

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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

Need help designing the antenna in? Use our antenna design services!

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

We provide 2 free layout reviews and if you need us to tune and characterize the antenna on your product (inside anechoic chamber) we can do that too. Small lab fee may apply for the latter.

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