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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

P/N 2450AT43B100

With Ground Clearance Requirements Minimized

Detail Specification: 7/20/2016 Page 1 of 5

Tip: This antenna "loves" to be mounted on PCB corners for optimum performance

General Specifications				
Part Number	2450AT43B100	Input Power	2W max. (CW)	
Frequency Range	2400 - 2500 Mhz	Reel Quanity	1,000	
Peak Gain	1.3 dBi typ. (XZ-V)	Operating Temperature	-40 to +85°C ¹	
Average Gain	-0.5 dBi typ. (XZ-V)	Recommended Storage	+5 to +35°C, Humidity: 45- 75%RH, 18 mos. Max	
Return Loss	9.5 dB min.	Conditions (for unused		
Radiation Pattern	Omnidirectional	product on T&R)		

Do you need an antenna that can operate at a higher temp or be AEC-Q200? Contact us at: http://www.johansontechnology.com/ask-a-question

Part Number Explanation					
	Booksging Style	Bulk	Suffix = S	Eg. 2450AT43B100S	
	Fackaging Style	T&R	Suffix = E	Eg. 2450AT43B100E	
	Termination Style	100% Tin	Suffix = None	Eg. 2450AT43B100(E or S)	
	Evalaution Board	2450AT43B100-EB1SMA (comes pre-tuned with SMA connector)			

Mechanical Dimensions				
L	ln	mm		
	0.276 ± 0.008	7.00 ± 0.20		
W	0.079 ± 0.008	2.00 ± 0.20		
L1	0.102 ± 0.008	2.60 ± 0.20		
W1	0.020 ± 0.008	0.50 ± 0.20		
T	0.079 +.004/008	2.00 +0.1/-0.2		
а	0.020 ± 0.012	0.50 ± 0.30		
Top View L W Bottom View L1 W1				
Want the layout file? Request it at: www.johansontechnology.com/ask-a-question				

Terminal Configuration				
No.	Function			
1	Feed Point			
2	NC			
3	NC			
4	NC			
3				
2	1			
4 NOTE: Pins 2, 3 & 4, although "NC", must be soldered to their corresponding PCB pads for proper electrical operation				



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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

P/N 2450AT43B100

With Ground Clearance Requirements Minimized

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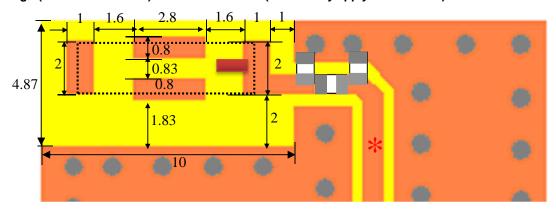
Detail Specification: 7/20/2016

Mounting and Layout Guidelines:

Mount these devices with red mark facing up. Units: mm

Need help designing the antenna in? Use our antenna design services! 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 design (anechoic chamber) we can do that too (lab fee may apply for the latter).



IMPORTANT! Matching circuit and component values will be different on your PCB, this will depend on PCB layout and shape, encasment, etc

*Antenna feed line width should be designed to provide 50 Ω impedance otherwise improper operation

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

Note 2: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is monted on Johanson's evaluation board. The matching values on clinet's PCB will be different. Go to: www.johansontechnology.com/tuning and see how to obtain the new values. If you need need us to tune it for you or would like the lyaout files, please contact our RF Applications Eng Team at: www.johansontechnology.com/ask-a-question

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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

P/N 2450AT43B100

With Ground Clearance Requirements Minimized

Detail Specification: 7/20/2016

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EVB used to characterize the antenna Would you like to order this pre-tuned EVB? Click on: www.johansontechnology.com/request-a-sample and please reference p/n: 2450AT43B100-EB1SMA (comes with SMA connector) Antenna 20 No Ground Typical Electrical Characteristics (T=25°C) With Proper Matching Circuit -5 m2 -10 Return Loss dB(S(1,1)) freq = 2.380GHzdB(S(1,1)) = -10.151-15 freq = 2.580GHzdB(S(1,1)) = -10.246-20 freg = 2.470GHzdB(S(1,1)) = -23.976-25

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freq, GHz

2.6



2.0

2.2

2.8

2.4

3.0

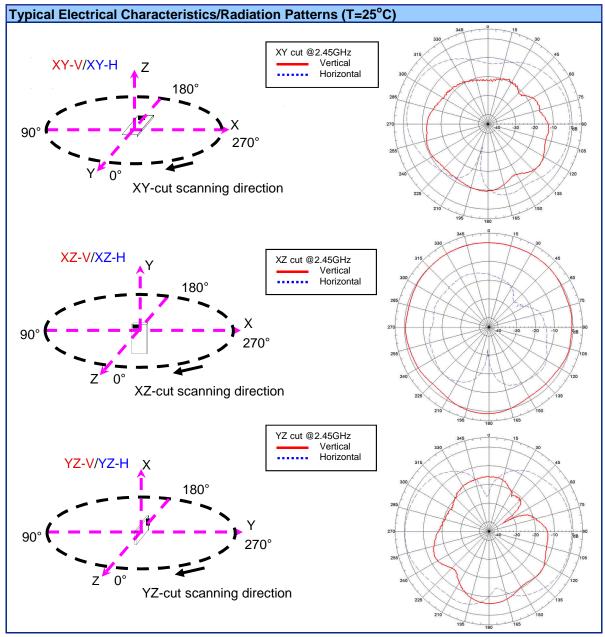
2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

P/N 2450AT43B100

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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

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With Ground Clearance Requirements Minimized

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Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipc-antenna-services

More SMD Chip Antennas at:

www.johansontechnology.com/antennas

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values)

www.johansontechnology.com/tuning

Packaging information

http://www.johansontechnology.com/tape-reel-packaging

RoHS2 (6/6) full compliance

www.johansontechnology.com/rohs-compliance

MSL Info

www.johansontechnology.com/msl-rating

P/N Explanation and Breakdown

www.johansontechnology.com/ipc-pn-explained

Recommended Storage Conditions of uninstalled product still on T&R

-40 ~ +85 °C, Humidity 45~75%RH, 18 mos. Max

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Johanson:

2450AT43B100E