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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna With Ground Clearance Requirements Minimized

P/N 2450AT43B100

Page 1 of 5

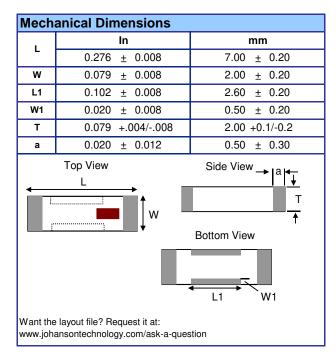
Detail Specification: 11/14/2016

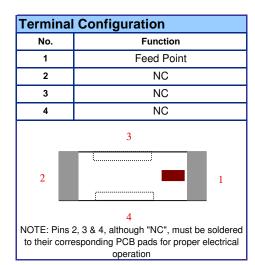
Tip: This antenna "loves" to be mounted on PCB corners for optimum performance					
General Specifications					
Part Number	2450AT43B100	Input Power	2W max. (CW)		
Frequency Range	2400 - 2500 Mhz	Reel Quanity	1,000		
Peak Gain	1.3 dBi typ. (XZ-V)	Operating Temperature	-40 to +105°C		
Average Gain	-0.5 dBi typ. (XZ-V)	Storage Temperature	-40 to +105°C		
Return Loss	9.5 dB min.	Recommended Storage	+5 to +35°C, Humidity: 45- 75%RH, 18 months max.		
Radiation Pattern	Omnidirectional	Conditions (for unused			
Would you like us to tune the antenna to your PCB? Contact us at:		product on T&R)			

www.johansontechnology.com/ask-a-question

Part Number Explanation

	Packaging Style	Bulk	Suffix = S	Eg. 2450AT43B100S
P/N Suffix	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)		







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

P/N 2450AT43B100 Page 2 of 5

With Ground Clearance Requirements MinimizedDetail Specification:11/14/2016

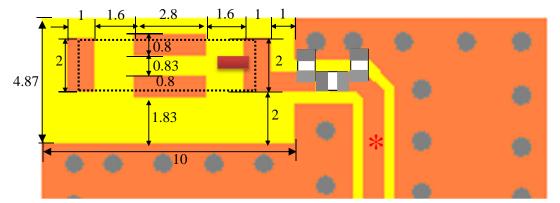
Mounting and Layout Guidelines:

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 $\,\Omega$ impedance otherwise improper operatio

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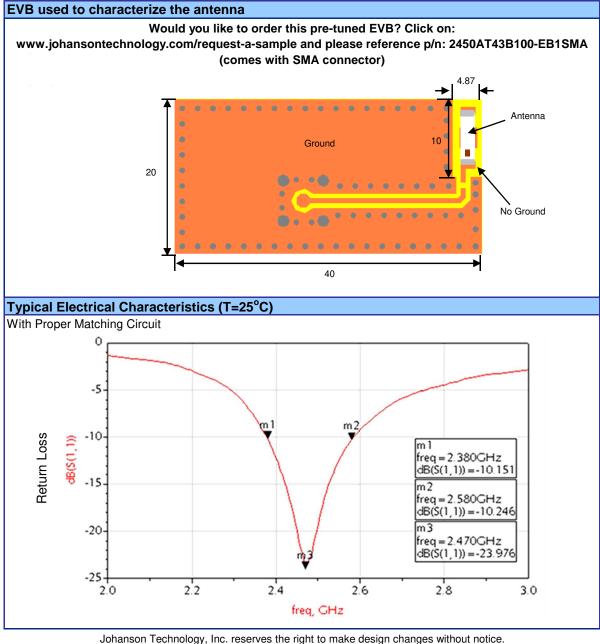
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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna

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With Ground Clearance Requirements Minimized Detail Specification: 11/14/2016



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2.4 GHz WLAN, Home RF, Bluetooth, 802.11 b/g, Antenna With Ground Clearance Requirements Minimized Detail Specification: 11/14/2016 P/N 2450AT43B100 Page 4 of 5

Typical Electrical Characteristics/Radiation Patterns (T=25°C) XY cut @2.45GHz XY-V/XY-H Vertical Ζ Horizontal 180° Х 90° 270° 0° XY-cut scanning direction XZ-V/XZ-H XZ cut @2.45GHz Y Vertical Horizontal 180° Х 90° 270° 0° Ζ XZ-cut scanning direction YZ cut @2.45GHz Vertical Horizontal YZ-V/YZ-H Х 180° 90° 270° 0° Ζ

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YZ-cut scanning direction



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Detail Specification: 11/14/2016 ###

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.johansontechno	

www.johansontechnology.com/ipc-pn-explained

Recommended Storage Conditions of <u>uninstalled</u> product still on T&R	-40 ~ +85 °C, Humidity 45~75%RH, 18 mos. Max
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