Mini 2.45 GHz Antenna

P/N 2450AT18A100

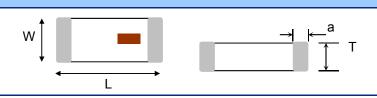
Detail Specification: 7/18/2014

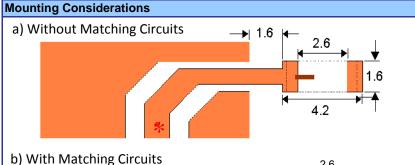
Page 1 of 4

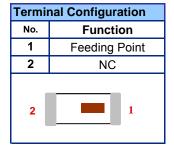
General Specifications			
Part Number	2450AT18A100		
Frequency Range	2400 - 2500 Mhz		
Peak Gain	in 0.5 dBi typ. (XZ-V)		
Average Gain	-0.5 dBi typ. (XZ-V)		
Return Loss	9.5 dB min.		
Input Power	2W max. (CW)		
Impedance	50 Ω		
Operating Temperature	-40 to +125°C		
Reel Quanity	3,000		



Mechanical Dimensions					
	In	mm			
L	0.126 ± 0.008	3.20 ± 0.20			
W	0.063 ± 0.008	1.60 ± 0.20			
Т	0.051 +.004/008	1.30 +0.1/-0.2			
а	0.020 ± 0.012	0.50 ± 0.30			







With Matching Circuits	2.6
_	3.9nH 1.6
1.9	0.4

* Line width should be designed to provide 50 Ω impedance matching characteristics.

leave available slots for a "pi" (or shunt-seriesshunt) network. The antenna matching network values here are used when antenna is mounted on Johanson's evaluation board. The matching values and topology on clinet's PCB will be different.

Note: It is recommended that the designer

Need our help tuning the antenna on your board? Contact our RF Applications Eng Team

www.johansontechnology.com/component/techquestion

Antenna Tuning services: www.johansontechnology.com/ipcantennaservices

Need the layout file of the above? Contact us at: www.johansontechnology.com/en/ask-a-technical-question.html

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Mount these devices with mark facing up. Units: mm

www.johansontechnology.com

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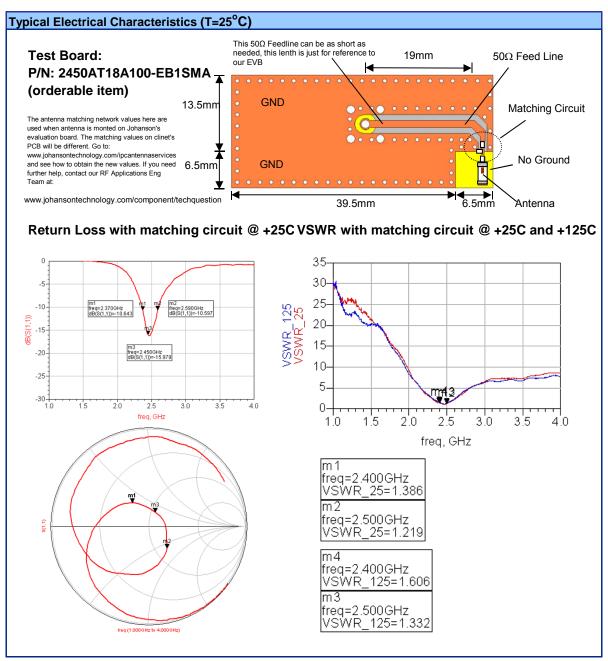
Ver 1.3

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Detail Specification: 7/18/2014 Page 2 of 4



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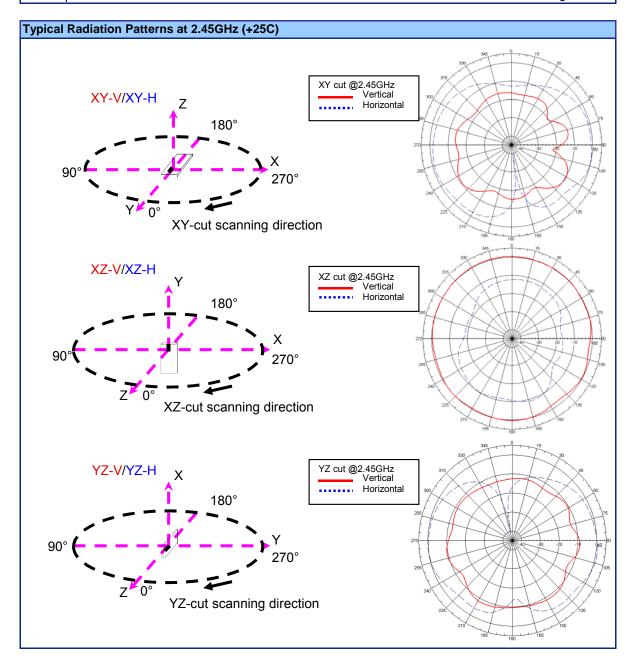


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Detail Specification: 7/18/2014

Page 3 of 4



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Mini 2.45 GHz Antenna P/N 2450AT18A100 Page 4 of 4 Detail Specification: 7/18/2014

Part Number Explanation							
P/N Suffix	Packaging Style	Bulk (loose pieces)	Suffix = S	Eg. 2450AT18A100S			
		T&R	Suffix = E	Eg. 2450AT18A100E			
		T & R (Reverse)	Suffix = R	Eg. 2450AT18A100R (MOQ Applies)			
	Termination style	100% Tin (RoHS)	Suffix = S/E/R	Eg. 2450AT18A100(S, E, R)			
		Tin / Lead	Please consult Factory				
	Evaluation Board(s) (1-port SMA antenna test boards)	2450AT18A100-EB1SMA (Page 2) Orderable item!					

AEC-Q2000 qualification available after special p/n: 2450AT18A100-AEC order. MOQ of 24K PCS applies for AEC and allow 16 weeks for AEC report leadtime.

Would you like Johanson Technology's RF team to help you design and tune our antenna on your board? Click on the link below:

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

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