

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







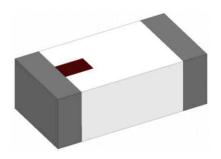
2.4GHz Mini Antenna, SMTDetail Specification: 7/9/2018

P/N 2450AT18A100

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

General Specifications				
Part Number	2450AT18A100			
Frequency (MHz)	2400 - 2500			
Avg. Rad Efficiency*	76%			
Peak Gain (dBi typ.)	0.5			
Average Gain (dBi typ.)	-0.5			
Return Loss (dB)	9.5 min.			

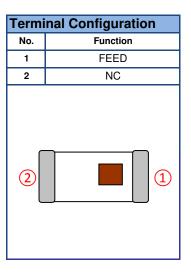


Return Loss (dB)	9.5 min.	Storage Period	18 months max.
		Storage Temperature	-40 to +125°C
Impedance	50 Ω	Operating Temperature	-40 to +125°C
Input Power	2 Watts max. (CW)	Reel Quantity	3000

^{*}Efficiency based on Johanson's standard evaluation board

Part Number Explanation						
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 2450AT18A100S		
		T&R	Suffix = E	e.g. 2450AT18A100E		
		100% Tin	Suffix = E or S	e.g. 2450AT18A100(E or S)		
	Evaluation Board	2450AT18A100-EBSMA (see page 2&3 for details)				

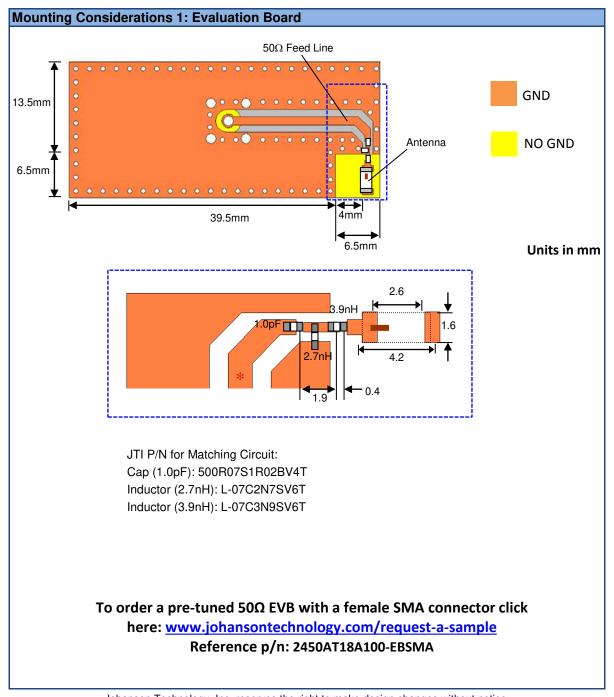
Mechanical Dimensions					
	ln	mm			
L	0.126 ± 0.008	3.20 ± 0.2			
W	0.063 ± 0.008	1.60 ± 0.2			
Т	0.051 +.004/008	1.30 +0.1/-0.2			
а	0.020 ± 0.012	0.50 ± 0.3			
Want the layout file? Request it at: www.johansontechnology.com/ask-a-question					





2.4GHz Mini Antenna, SMT







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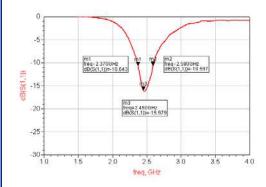
Detail Specification:

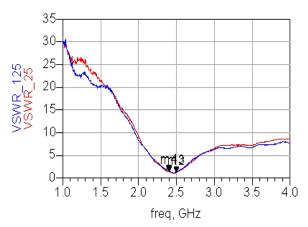
7/9/2018

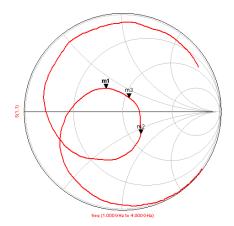
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Mounting Considerations 1: Typical Electrical Performance (T=25°C)

Return Loss with matching circuit @ +25C VSWR with matching circuit @ +25C and +125C





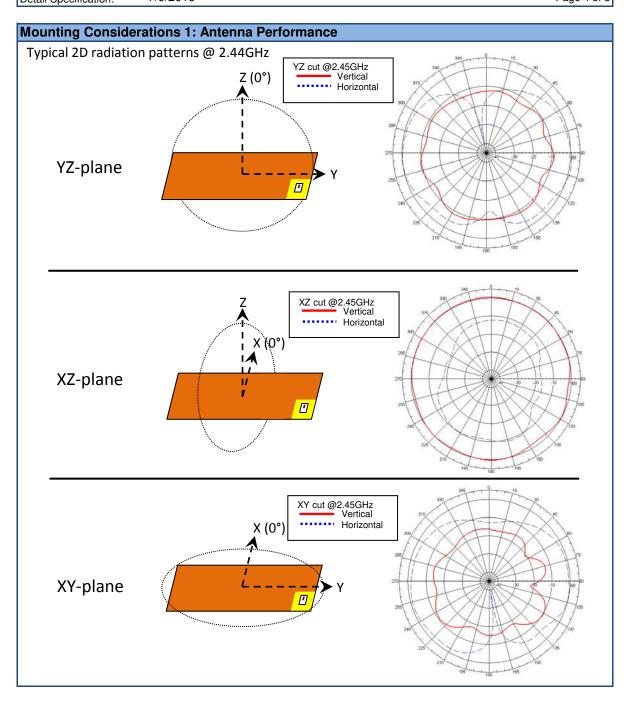


m1 freq=2.400GHz VSWR_25=1.386 m2 freq=2.500GHz VSWR_25=1.219

m4 freq=2.400GHz VSWR_125=1.606 m3 freq=2.500GHz VSWR_125=1.332



2.4GHz Mini Antenna, SMTDetail Specification: 7/9/2018 Page 4 of 5





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Antenna tuning, optimization, and validation services:

www.johansontechnology.com/ipc-antenna-services

For more antennas and to download measured S-parameters, go to:

www.johansontechnology.com/antennas

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

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For layout review contact our Applications Team at:

www.johansontechnology.com/ask-a-question

RoHS Compliance

www.johansontechnology.com/rohs-compliance

Need help designing the antenna in? Use our antenna design services! <u>www.johansontechnology.com/ipc-antenna-services</u>

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.

