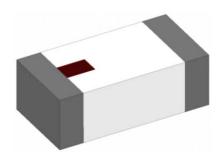
2.4GHz Mini Antenna, SMTDetail Specification: 7/9/2018 Page 1 of 5

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		
Poturn Loca (dP)	0.5 min		
Return Loss (dB)	9.5 min.		



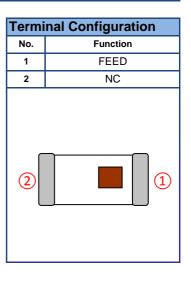
Return Loss (dB)	9.5 min.	Storage Period	18 months max.
		Storage Temperature	-40 to +125°C
Impedance	50 Ω	Operating Temperature	-40 to +125°C
Input Power	2 Watts max. (CW)	Reel Quantity	3000

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

Mechanical Dimensions

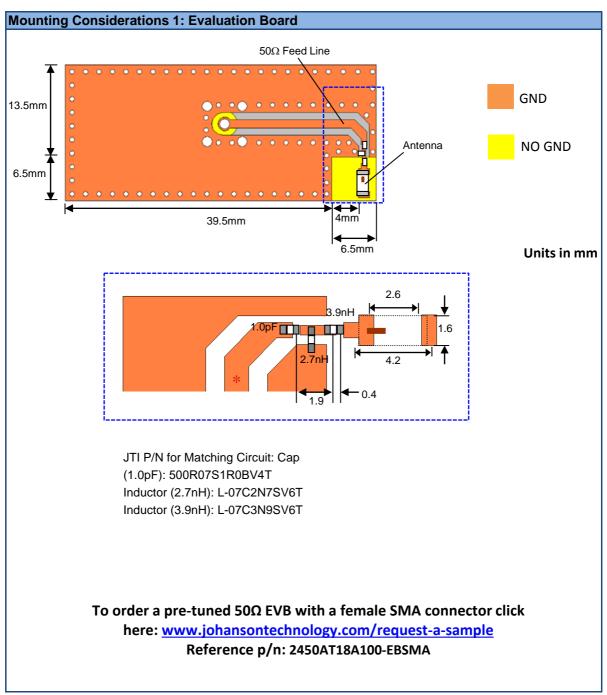
Part Number Explanation				
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 2450AT18A100S
		T&R	Suffix = E	e.g. 2450AT18A100E
P/N Sullix		100% Tin	Suffix = E or S	e.g. 2450AT18A100(E or S)
	Evaluation Board	2450AT18A100-EBSMA (see page 2&3 for details)		

wecn	anical Dimensions		
	In	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, SMTDetail Specification: 7/9/2018 Page 2 of 5

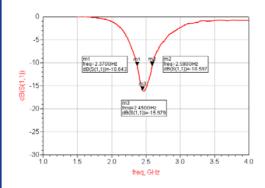


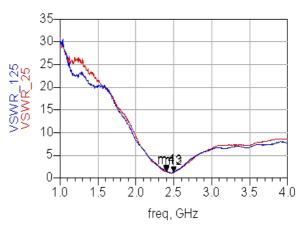


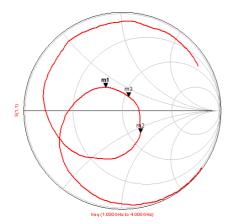
2.4GHz Mini Antenna, SMTDetail Specification: 7/9/2018 **P/N 2450AT18A100**Page 3 of 5

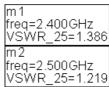
Mounting Considerations 1: Typical Electrical Performance (T=25°C)

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





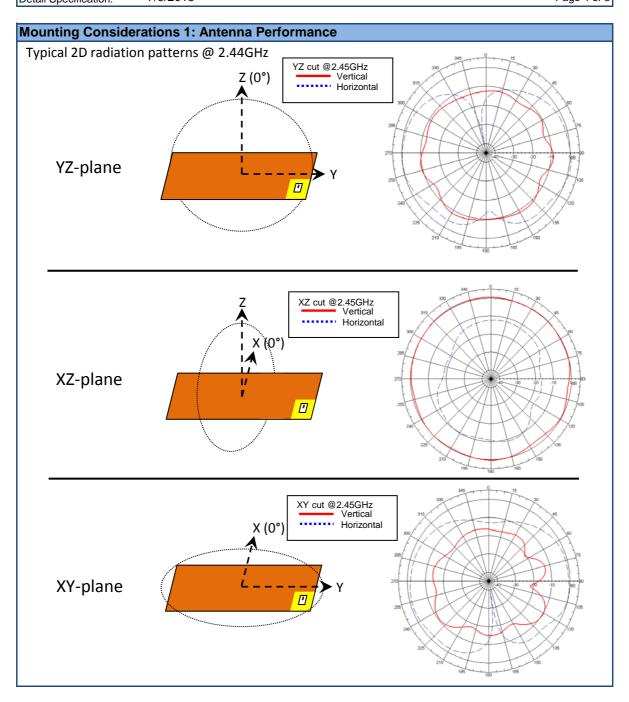




m4 freq=2.400GHz VSWR_125=1.606
m3 freq=2.500GHz VSWR_125=1.332



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





2.4GHz Mini Antenna, SMT

P/N 2450AT18A100

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Antenna tuning, optimization, and validation services:

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

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Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

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Packaging information

www.johansontechnology.com/tape-reel-packaging

For layout review contact our Applications Team at:

www.johansontechnology.com/ask-a-question

RoHS Compliance

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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.

