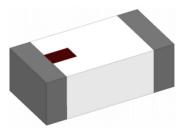
### 2.4GHz Mini Antenna, SMT P/N 2450AT18B100

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

General Specifications			
Part Number	2450AT18B100		
Frequency (MHz)	2400 - 2500		
vg. Rad Efficiency* 76%			
Peak Gain (dBi typ.)	0.5		
Average Gain (dBi typ.)	-0.5		
Return Loss (dB)	9.5 min.	I	



Storage Temperature	-45 to +125°C	
Operating Temperature	-45 to +125°C	
Recommended Storage Conditions of unused	+5 to +35°C Humidity 45~75%RH	
product on T&R and period.	18 months max.	
Reel Quantity	3000pcs	

<sup>\*</sup>Efficiency based on Johanson's standard evaluation board

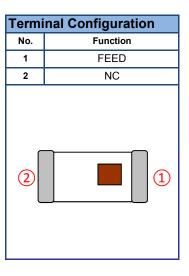
Impedance Input Power

Part Number Explanation						
P/N Suffix	Packing Style T&R	Bulk (loose)	Suffix = S	e.g. 2450AT18B100S		
		T&R	Suffix = E	e.g. 2450AT18B100E		
		100% Tin	Suffix = E or S	e.g. 2450AT18B100(E or S)		
	Evaluation Board	2450AT18B100-EB1SMA (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 ± 0.008	0.50 ± 0.2			
Want the layout file? Request it at: <a href="https://www.johansontechnology.com/ask-a-question">https://www.johansontechnology.com/ask-a-question</a>					

50 Ω

2 Watts max. (CW)

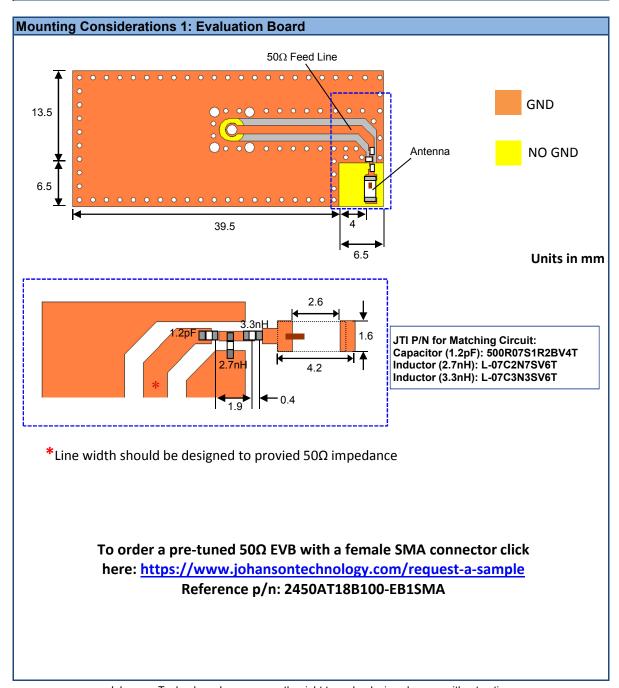


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2.4GHz Mini Antenna, SMT P/N 2450AT18B100

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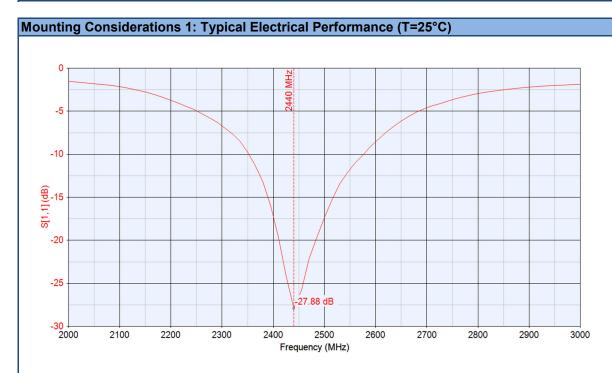
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2.4GHz Mini Antenna, SMT

P/N 2450AT18B100

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Would you like the antenna layout? Have antenna tuning issues?

Please contact us if you have any questions regarding the implementation of this antenna in your PCB's layout. We'll be happy to guide you to maximize the antenna's performance.

Contact our applications engineers at:

https://www.johansontechnology.com/ask-a-question

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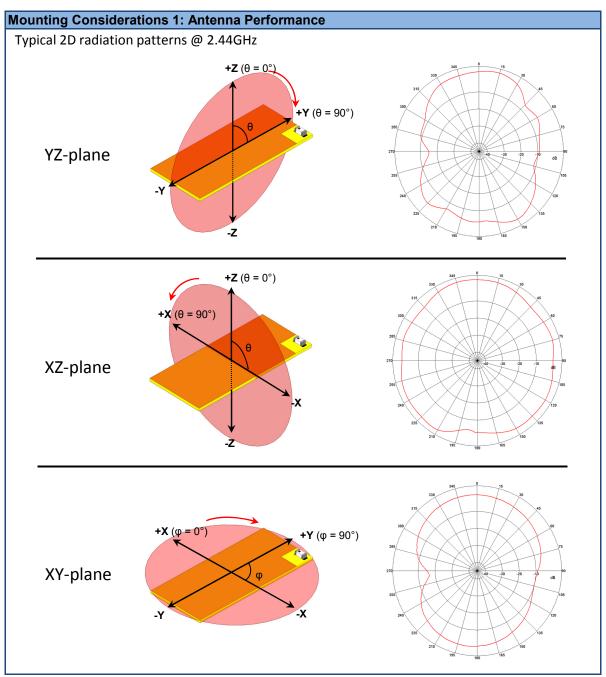
Ver. 4.0

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 2.4GHz Mini Antenna, SMT
 P/N 2450AT18B100

 Detail Specification:
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2.4GHz Mini Antenna, SMT

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#### Antenna tuning, optimization, and validation services:

https://www.johansontechnology.com/ipc-antenna-services

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

https://www.johansontechnology.com/antennas

#### Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

#### **MSL Info**

https://www.johansontechnology.com/msl-rating

#### **Packaging information**

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

#### For layout review contact our Applications Team at:

https://www.johansontechnology.com/ask-a-question

#### **RoHS Compliance**

https://www.johansontechnology.com/rohs-compliance

Need help designing the antenna in? Use our antenna design services! https://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 product (inside our anechoic chamber) we can do that too. Small lab fee may apply.

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