

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

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







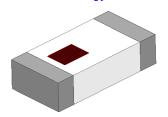
2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

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General Specifications				
Part Number	2450AT14A0100			
Frequency (GHz)	2.4 - 2.48			
Avg. Rad Efficiency ¹	48%			
Peak Gain ¹ (dBi typ.)	-0.5 dBi typ. (XZ-Total)			
Average Gain (dBi typ.)	-2.0 dBi typ. (XZ-Total)			
Return Loss (dB)	9.5 Typ. (6 min.)			
Impedance	50 Ω			
Input Power	2 Watts max. (CW)			

Let us help you with the antenna design (free), optimization, and tuning (small fee may apply) www.johansontechnology.com/ask-a-question



¹Measured on 2450AT14A0100-EB2SMA

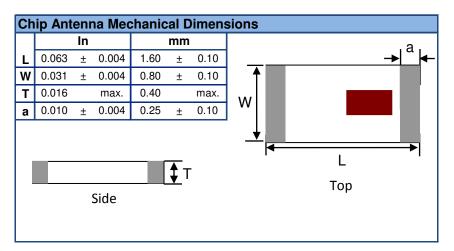
Operating Temperature	-40 to +85°C	
Storage Temperature	-40 to +85°C	
Reel Quantity	4000	ا

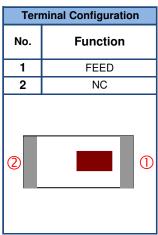
Recommended Storage Conditions of unused product on T&R and period +5 to $+35^{\circ}$ C, Humidity $45\sim75\%$ RH, 18 months max.

AEC-Q200 qualification available.

Part Number Explanation						
P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 2450AT14A0100S		
		T&R	Suffix = T	e.g. 2450AT14A0100T (4,000pcs/reel)		
		100% Tin	Suffix = T or S	e.g. 2450AT14A0100(T or S)		
	Evaluation Board	2450AT14A0100-EB1SMA & 2450AT14A0100-EB2SMA see pages 2&6 for details				

 $Contact \ our \ RF \ Engineers \ at: \underline{www.johansontechnology.com/ask-a-question} \ for \ any \ questions \ you \ have, including tips \ or \ help \ on \ tuning \ the \ antenna$





Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



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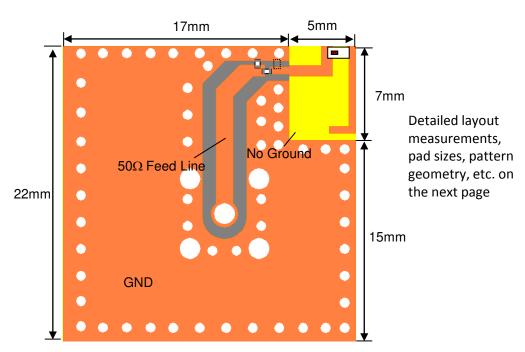
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2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

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Mounting Considerations 1: Evaluation Board (small PCB)



Would you like the layout file of the above? Having antenna tuning issues? Contact us by clicking on the link below (we're fast to respond!) . If you have any questions regarding the implementation of this antenna in your PCB, we'll be happy to guide you to maximize the antenna's performance.

Contact our applications engineers at:

www.johansontechnology.com/ask-a-question

To order a pre-tuned 50Ω EVB like the above with a female SMA connector

click here: www.johansontechnology.com/request-a-sample

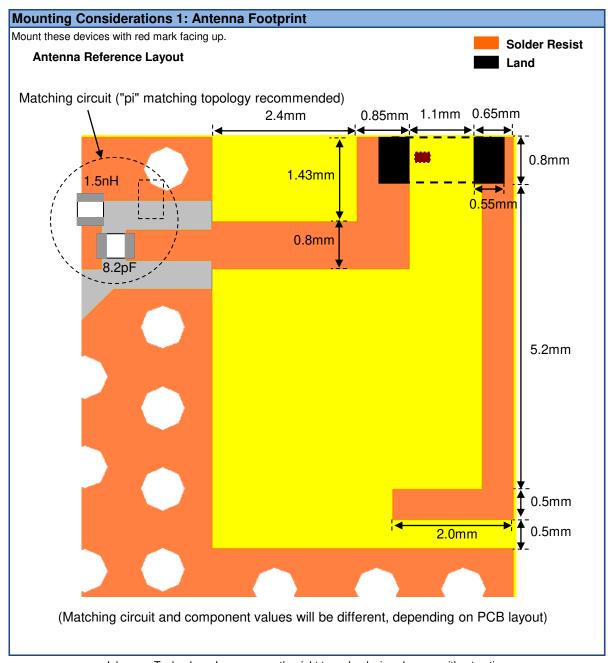
Reference p/n: 2450AT14A0100-EB1SMA



2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

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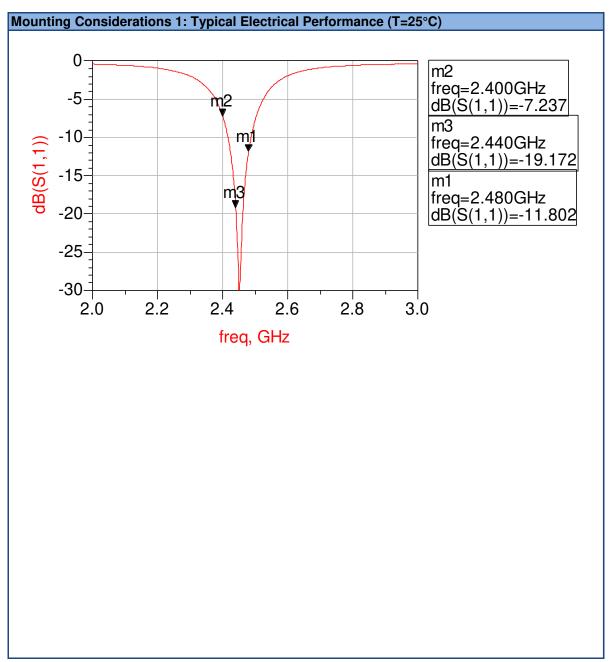


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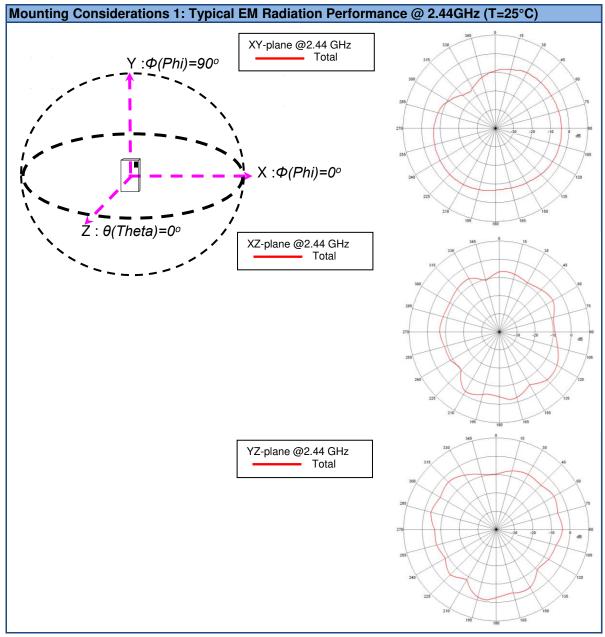




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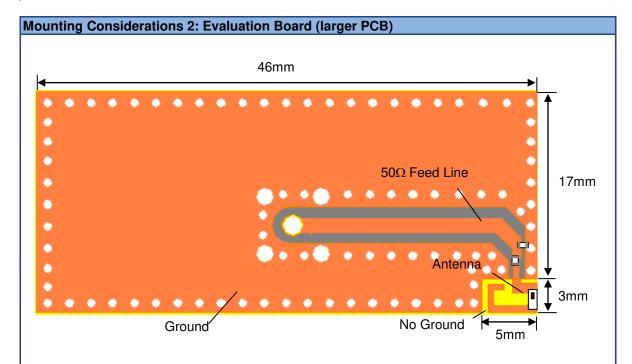




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P/N 2450AT14A0100

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Frequency (GHz)	Radiated Efficiency (%)	
2.44	48	

To order a pre-tuned 50Ω EVB with a female SMA connector click here:

www.johansontechnology.com/request-a-sample

Reference p/n: 2450AT14A0100-EB2SMA

Would you like the layout file of the above? 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:

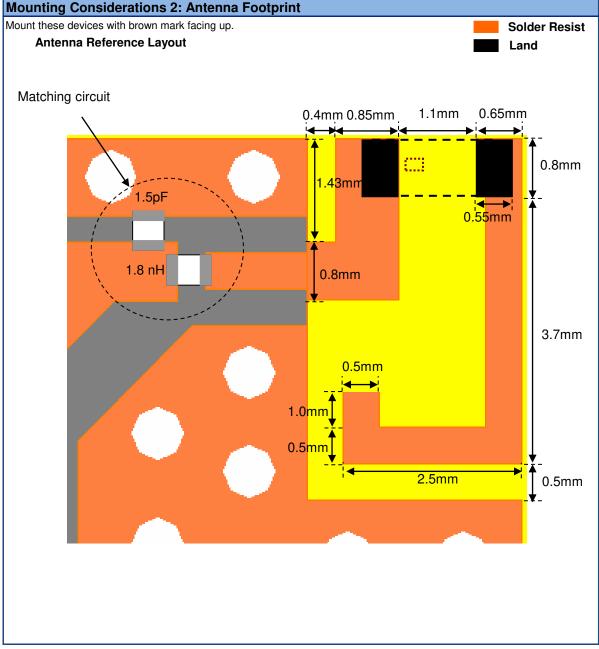
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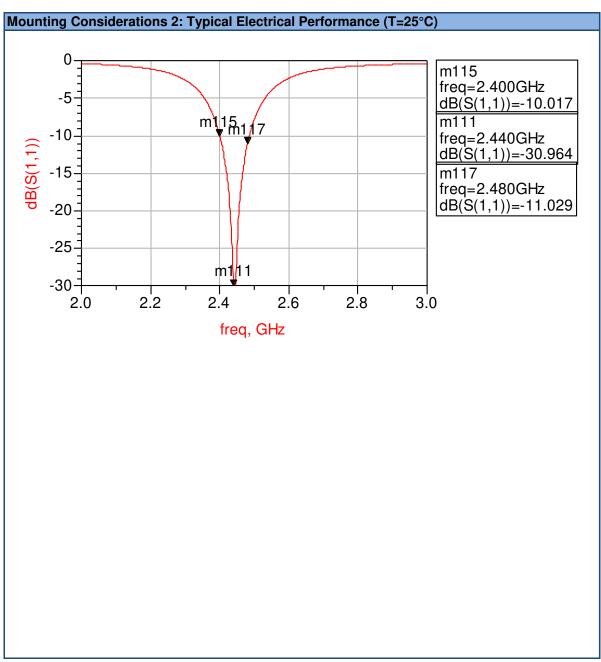
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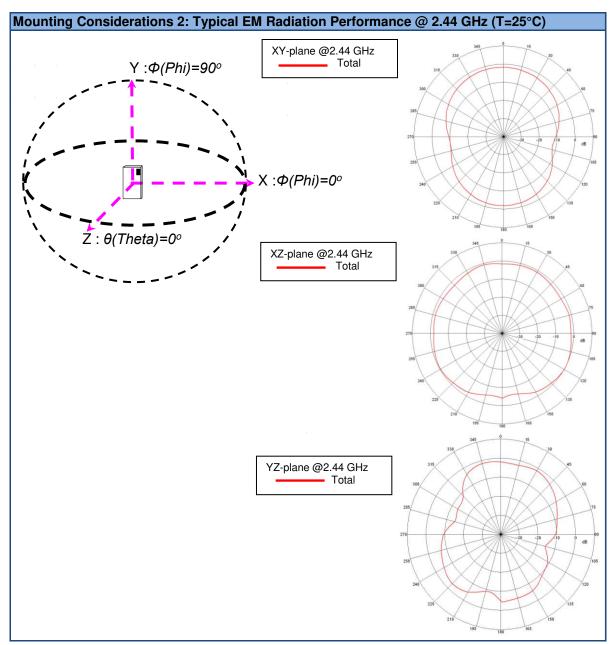
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Antenna tuning, optimization, and validation services:

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

MSL Info

www.johansontechnology.com/msl-rating

Packaging information

www.johansontechnology.com/tape-reel-packaging

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! www.johansontechnology.com/ipc-antenna-services

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.

We can do Electromagnetic similations using your existing mechanical files too!

