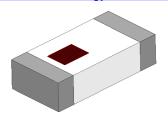
2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

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General Specifications				
2450AT14A0100				
2.4 - 2.48				
48%				
-0.5 dBi typ. (XZ-Total)				
-2.0 dBi typ. (XZ-Total)				
9.5 Typ. (6 min.)				
50 Ω				
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



<sup>1</sup>Measured on 2450AT14A0100-EB2SMA

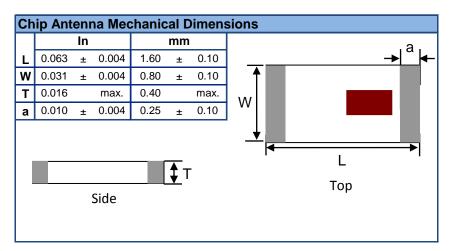
Operating Temperature	-40 to +85°C	F
Storage Temperature	-40 to +85°C	
Reel Quantity	4000	F

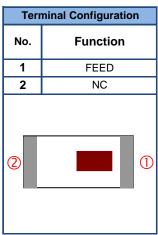
Recommended Storage Conditions of unused product on T&R and period +5 to +35°C, Humidity 45~75%RH, 18 months max.

AEC-Q200 qualification available.

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

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





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Ver. 1.3

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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

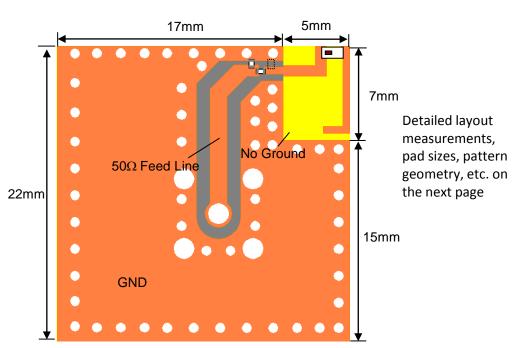
P/N 2450AT14A0100

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Detail Specification:

2/8/2018

### 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  $50\Omega$  EVB like the above with a female SMA connector

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

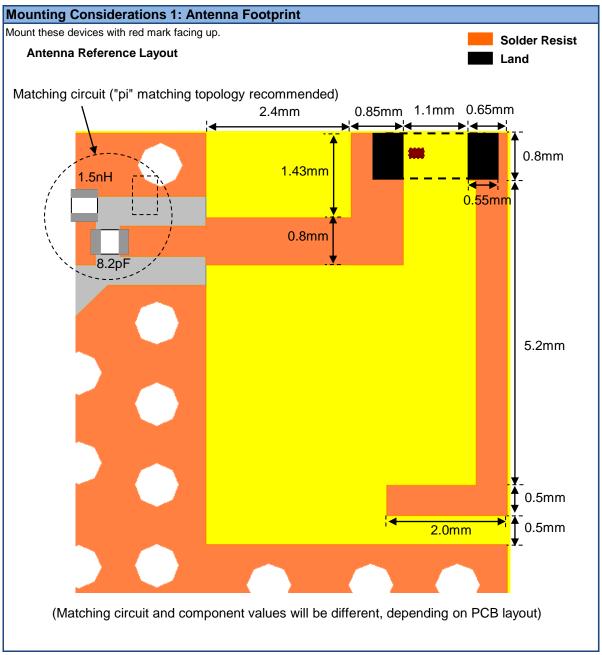
Reference p/n: 2450AT14A0100-EB1SMA



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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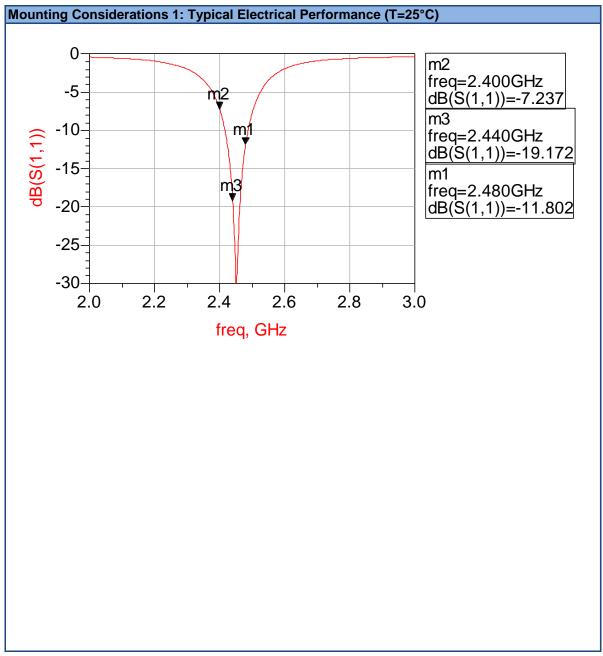


2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

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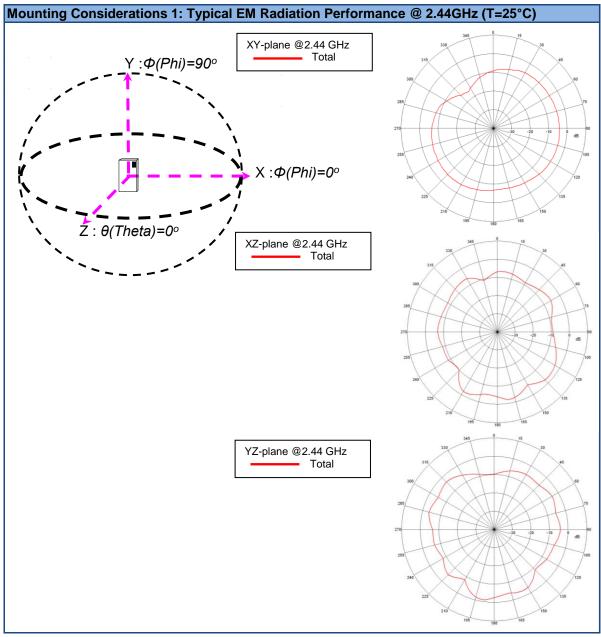


2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

GND Size, ultra low profile

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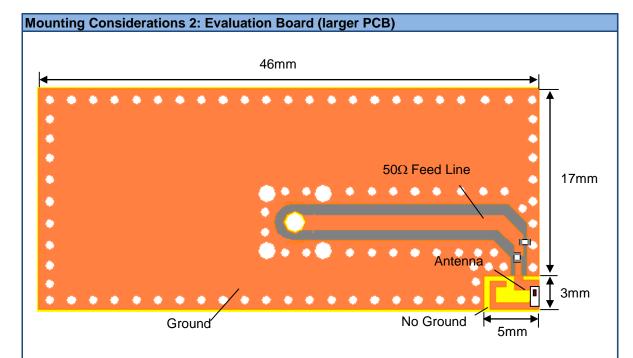
2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

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Frequency (GHz)	Radiated Efficiency (%)
2.44	48

To order a pre-tuned  $50\Omega$  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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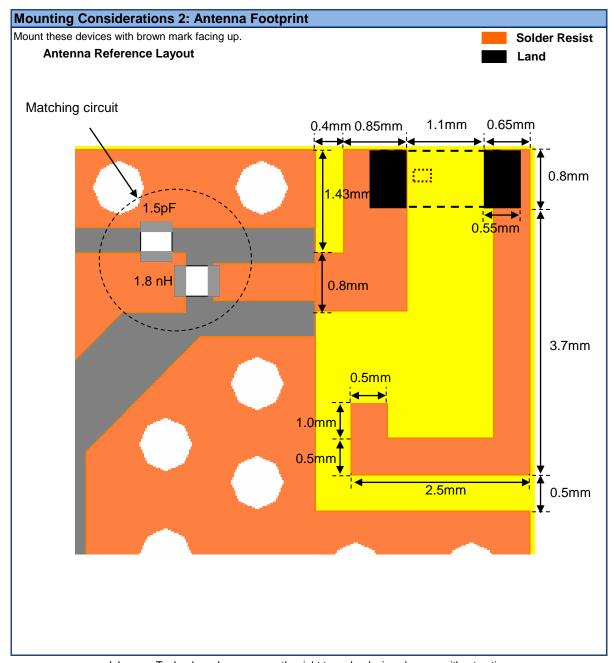
2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

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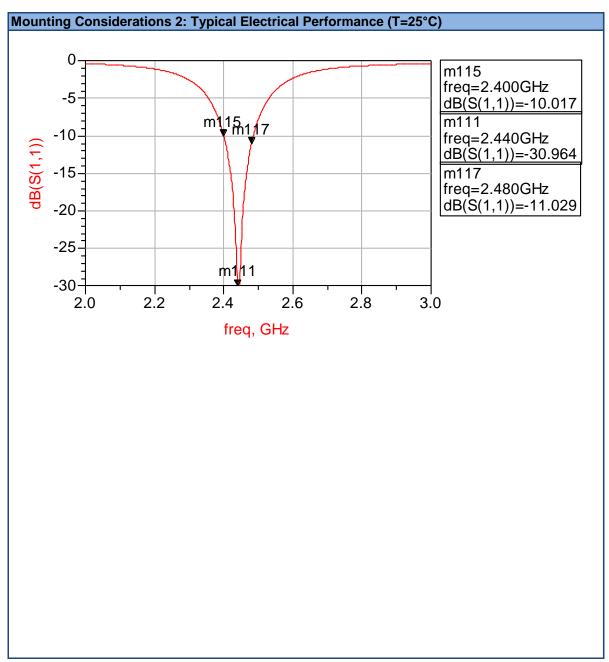
2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

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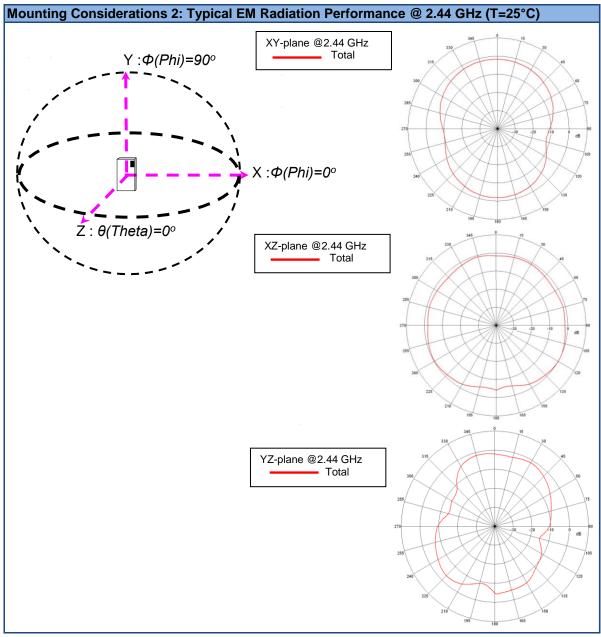




2.4 GHz Mini Chip Antenna for 802.11, WiFi, WLAN, IoT with Small Area and GND size, ultra low profile

P/N 2450AT14A0100

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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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### 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!



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2450AT14A0100T