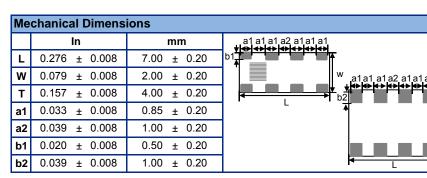
#### 2.5GHz Chip Antenna with No GND clearance required

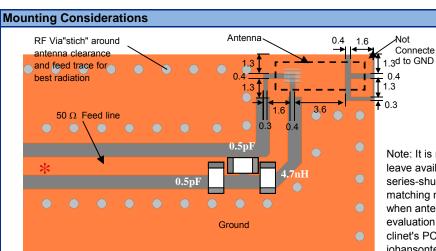
P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 1 of 5

General Specifications			
Part Number	2500AT43A0100	Input Power	2W max. (CW)
Frequency Range	2450 - 2550	Operating Temperature	-40 to +85°C
Peak Gain	0.6 dBi typ. (YZ-total)	Recommended Storage	+5~+35°C, Humidity
Average Gain	-2.1 dBi typ. (XZ-total)	Conditions	45~75%RH
VSWR	3.0 max.	Reel Quanity	500pcs
Impedance	50 Ω		•







Units in mm

Note: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values here are used when antenna is mounted on Johanson's evaluation board. The matching values on clinet's PCB will be different, go to: johansontechnology.com/tuning and see how to obtain the new values. If you need further help, contact our RF Applications Eng Team at:

www.johansontechnology.com/en/ask-a-technical-question.html

We perform layout review as well as antenna tuning and characterization services. Go to page 2 for details.

Line width should be designed to match  $50\Omega$  characteristic impedance,

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.

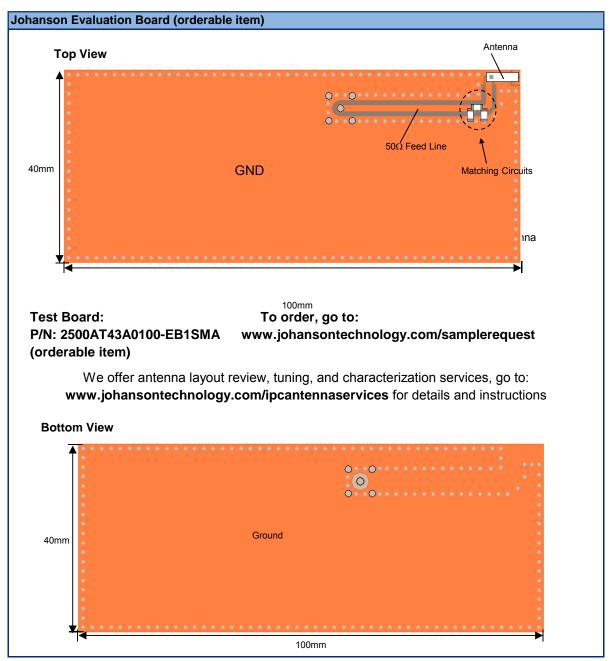


depending on PCB material and thickness

#### 2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 2 of 5



Johanson Technology, Inc. reserves the right to make design changes without notice.

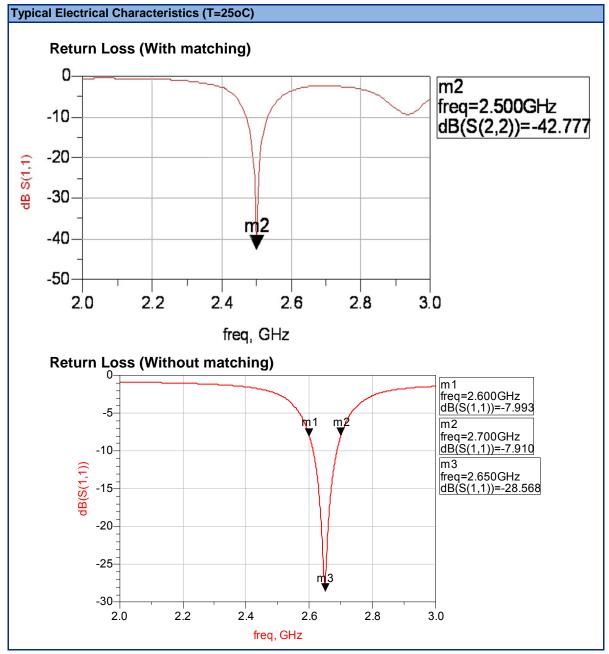
All sales are subject to Johanson Technology, Inc. terms and conditions.



#### 2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 3 of 5



Johanson Technology, Inc. reserves the right to make design changes without notice.

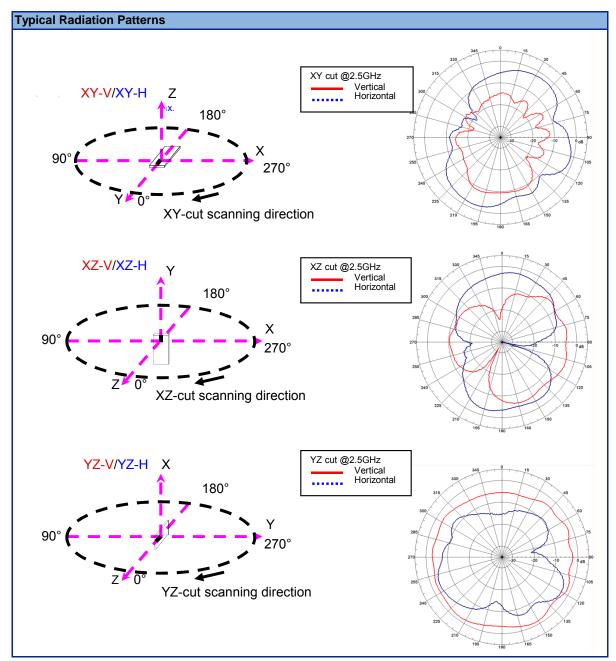
All sales are subject to Johanson Technology, Inc. terms and conditions.



#### 2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 4 or 5



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



#### 2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 5 or 5

Part Number E	xplanation			
	Packing Style	Bulk (loose pieces)	Suffix = S	eg.2500AT43A0100S
		T&R	Suffix = E	eg. 2500AT43A0100E
		T & R (Reverse)	Suffix = R	eg. 2500AT43A0100R (MOQ Applies)
P/N Suffix		100% Tin	Suffix = None	eg. 2500AT43A0100(S, E, R)
P/N Sullix	Eval Board (1-port SMA antenna test boards)	2500AT43A0100-EB1SMA (Page 2)		
	More Details	www.jo	hansontechnol	ogy.com/ipc-pn-explained

Storage Conditions and Shelf Life (On T&R or Bulk)			
Temperature:	+5C to +35°C	Shelf Life:	18 months max.
Relative Humidity:	45 to 75%		

<b>Packaging information</b>	
	www.johansontechnology.com/ipcpackaging.html

<b>Soldering Information</b>	
	www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques
www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services	
www.johansontechnology.com/ipcantennaservices	

RoHS Compliance	
	www.iohansontechnology.com/technical-notes/rohs-compliance.html

MSL Info		
	www.johansontechnology.com/technical-notes/msl-rating.html	

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



### **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Johanson:

2500AT43A0100E