2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Terminal Configuration **Function** Feeding Point GND

> GND NC NC

> GND

GND

2

5

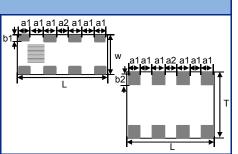
6

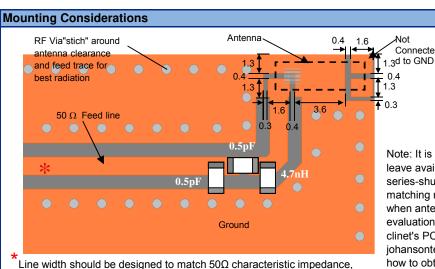
Connecte

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

General Specification	s		
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 Conditions	+5~+35°C, Humidity
Average Gain	-2.1 dBi typ. (XZ-total)		45~75%RH
VSWR	3.0 max.	Reel Quanity	500pcs
Impedance	50 Ω		•

Ме	chanical Dimens	ions	
	ln	mm	a1 a1 a1 a2 a1 a1 a1
L	0.276 ± 0.008	7.00 ± 0.20	b1
W	0.079 ± 0.008	2.00 ± 0.20	
Т	0.157 ± 0.008	4.00 ± 0.20	,
a1	0.033 ± 0.008	0.85 ± 0.20	L
a2	0.039 ± 0.008	1.00 ± 0.20	
b1	0.020 ± 0.008	0.50 ± 0.20	
b2	0.039 ± 0.008	1.00 ± 0.20	





GND

Units in mm

Note: It is recommended that the designer leave available slots for a "pi" (or shuntseries-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-atechnical-question.html

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

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

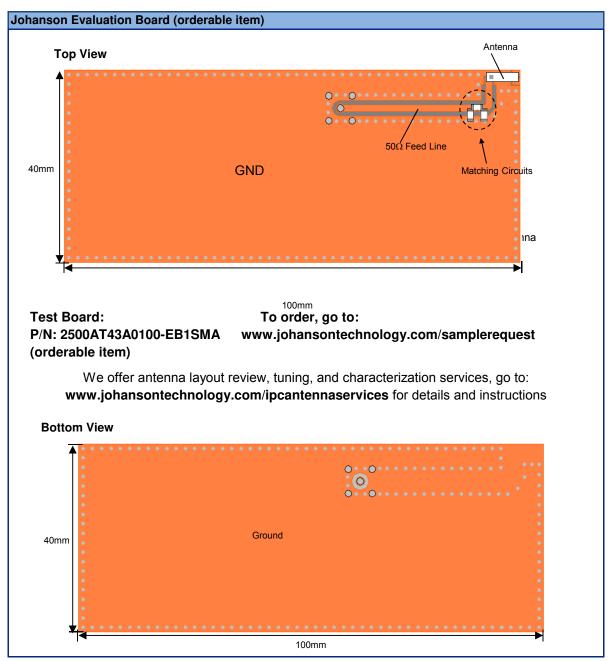


depending on PCB material and thickness

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P/N 2500AT43A0100

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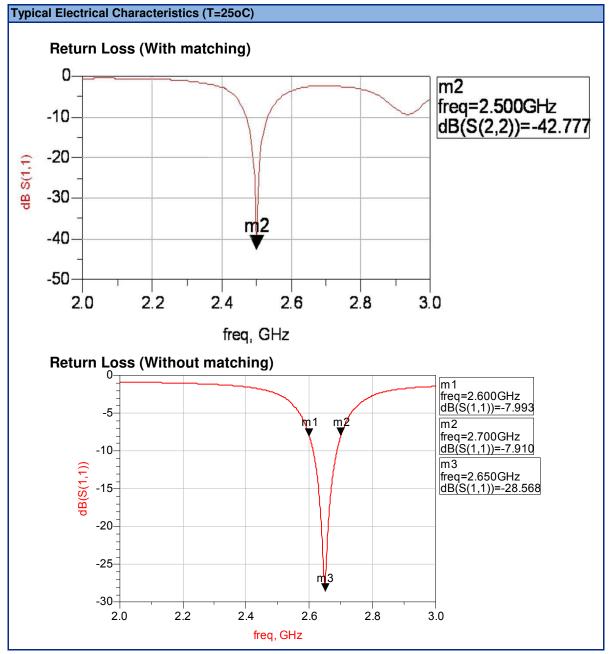




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P/N 2500AT43A0100

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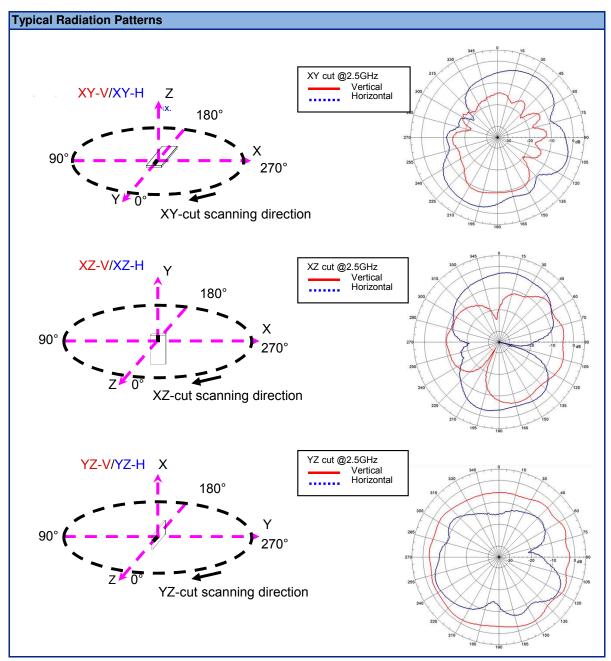


2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013

Page 4 or 5





2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

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

Packaging information www.johansontechnology.com/ipcpackaging.html

Soldering Information 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 Complian	nce
	www.johansontechnology.com/technical-notes/rohs-compliance.html

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

