

"High Frequency Ceramic Solutions"

Ultra-Miniature 2.4GHz Chip antenna 0.37mm max Thickness

P/N 2450AT07A0100

Detail Specification: 2/23/2016

Page 1 of 4

General Specifications

Part Number	2450AT07A0100	Input Power	2W max. (CW)
Frequency (MHz)	2400~2500	Storage Temperature	-40 to +85°C
Peak Gain (dBi typ.)	1.0 (XZ-Total)	Operating Temperature	-40 to +125°C
Average Gain (dBi typ.)	-1.5 (XZ-Total)	Recommended Storage Conditions of unused product on T&R	+5 ~ +35 °C, 18 mos max. Humidity 45~75%RH
Return Loss	6.5 dB min.		
Impedance	50 Ω		

Part Number Explanation

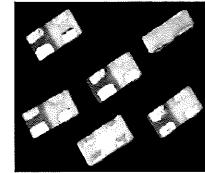
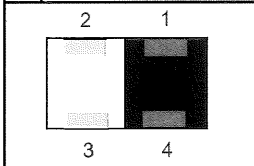
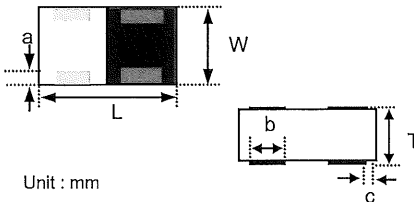
P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT07A0100S
		T & R (10000pcs)	Suffix = T	Eg. 2450AT07A0100T
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450AT07A0100(T or S)

Terminal Configuration

No.	Function
1	Feed
2	GND
3	GND
4	Feed

Mechanical Dimensions

	In	mm
L	0.039 ± 0.004	1.00 ± 0.10
W	0.020 ± 0.004	0.50 ± 0.10
T	0.014 (max)	0.37 (max)
a	0.006 +.004/-.006	0.15 +0.1/-0.05
b	0.010 +.004/-.006	0.25 +0.1/-0.05
c	0.003 +.004/-.006	0.08 +0.1/-0.05



Mounting Considerations

Mount these devices with red mark facing up.

*Line width should be designed to provide 50Ω impedance matching characteristics.

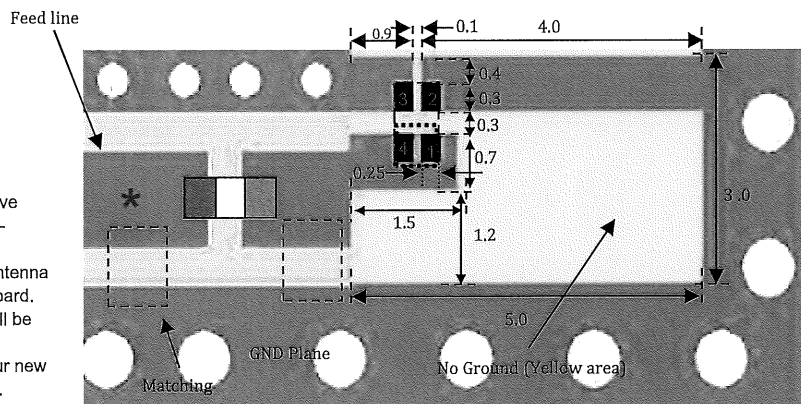
Units: mm

- Solder
- Land

It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different.

Let us help you tune our antenna on your new layout, contact our RF Applications Eng. Team at:

www.johansontechnology.com/ask-a-question



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

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

JOHANSON TECHNOLOGY

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 3.0

2016 Johanson Technology, Inc. All Rights Reserved