

"High Frequency Ceramic Solutions"

Ultra-Miniature 2.4GHz Chip antenna 0.37mm max Thickness

P/N 2450AT07A0100

Detail Specification: 2/23/2016

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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

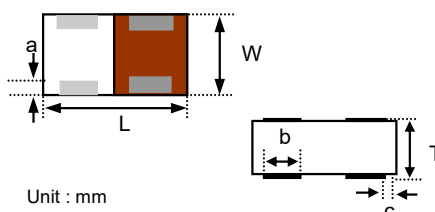
P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450AT07A0100S
Suffix	Termination Style	T & R (10000pcs)	Suffix = T	Eg. 2450AT07A0100T
		100% Tin	Suffix = None	Eg. 2450AT07A0100(T or S)

Terminal Configuration

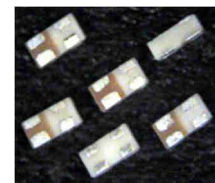
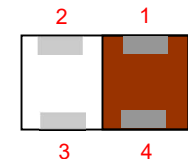
No.	Function
1	Feed
2	GND
3	GND
4	Feed

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



Unit : mm



Mounting Considerations

Mount these devices with red mark facing up.

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

Units: mm

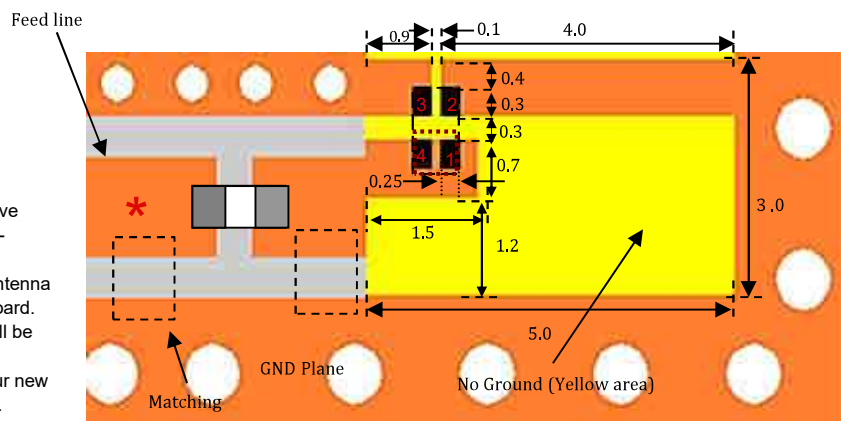
- Solder
- Land

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



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Ver 3.0

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