

"High Frequency Ceramic Solutions"

Ultra-Miniature 2.4GHz Chip antenna 0.37mm max Thickness P/N 2450AT07A0100

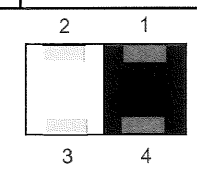
Detail Specification: 2/23/2016

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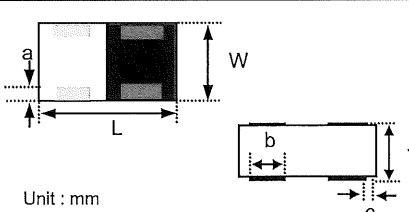
| General Specifications | | | |
|-------------------------|-----------------|---|--|
| Part Number | 2450AT07A0100 | Input Power | 2W max. (CW) |
| Frequency (MHz) | 2400~2500 | Storage Temperature | -40 to +85°C |
| Peak Gain (dBi typ.) | 1.0 (XZ-Total) | Operating Temperature | -40 to +125°C |
| Average 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 |
| | | 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 |



Unit : mm

Mounting Considerations

Mount these devices with red mark facing up.

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

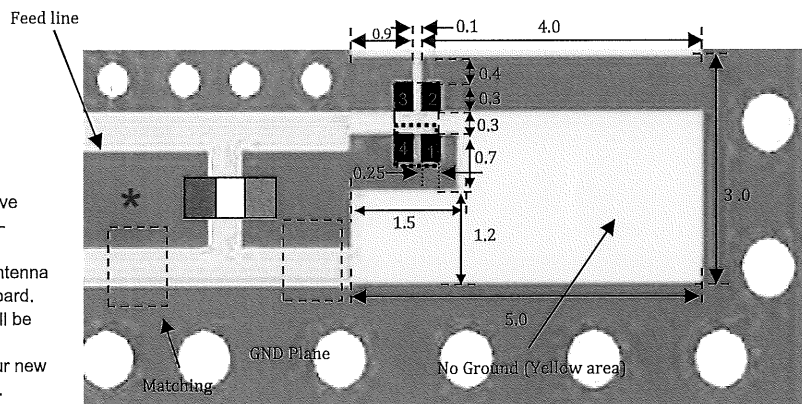
Units: mm

-  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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