# Excellent Integrated System Limited

Stocking Distributor

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Johanson Technology Inc.
2450AT43D100E

For any questions, you can email us directly:
sales@integrated-circuit.com

# High Frequency Ceramic Solutions

**2.45 GHz Antenna** **P/N 2450AT43D100**

Detail Specification: 11/29/06 

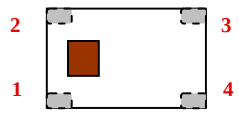
## General Specifications

| | |
|---|---|
| **Part Number** | 2450AT43D100 |
| **Freq. Range (GHz)** | 2400 - 2500 |
| **Peak Gain (XZ-V)** | -0.5 dBi typ. |
| **Average Gain (XZ-V)** | -3.6 dBi typ. |
| **Return Loss** | 9.5 dB min. |

| | |
|---|---|
| **Input Power** | 3W max. |
| **Impedance** | 50 Ω |
| **Operating Temp.** | -40 to +85°C |
| **Reel Quanity** | 1,000 |

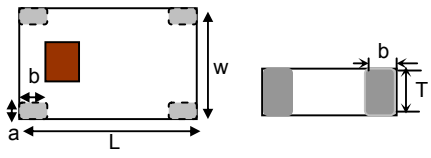
| | | | | |
|---|---|---|---|---|
| **P/N Suffix** | **Packaging Style** | Bulk | Suffix = S | Eg. 2450AT43D100S |
| | | T & R | Suffix = E | Eg. 2450AT43D100E |
| | **Termination Style** | 100% Tin | Suffix = None | Eg. 2450AT43D100(E or S) |
| | | Tin / Lead | Suffix = /Pb | Eg. 2450AT43D100(E or S)/Pb |

| **Terminal Configuration** | |
|---|---|
| **No.** | **Function** |
| 1 | Feeding Point |
| 2 | GND |
| 3 | GND |
| 4 | GND |




## Mechanical Dimensions

| | In | mm |
|---|---|---|
| **L** | 0.236 ± 0.008 | 6.00 ± 0.20 |
| **W** | 0.098 ± 0.008 | 2.50 ± 0.20 |
| **T** | 0.079 ± 0.008 | 2.00 ± 0.20 |
| **a** | 0.020 ± 0.008 | 0.50 ± 0.20 |
| **b** | 0.059 ± 0.008 | 1.50 ± 0.20 |

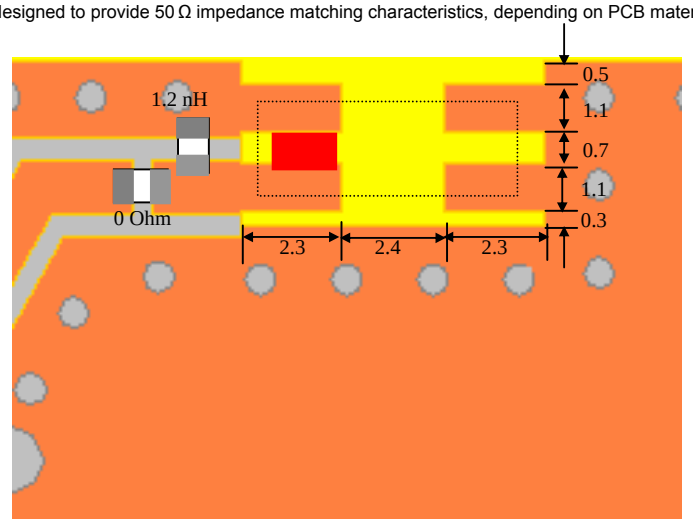



## Mounting Considerations

Mount these devices with white mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics, depending on PCB material and thickness.

With Matching Circuits

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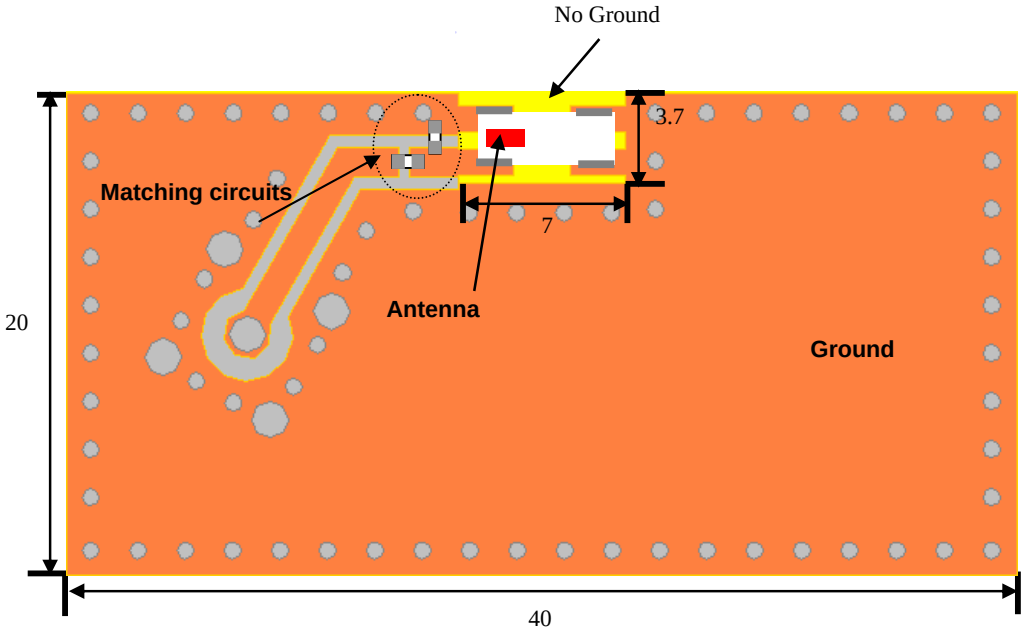
**Mounting Considerations**

**Test Board**

Units in mm

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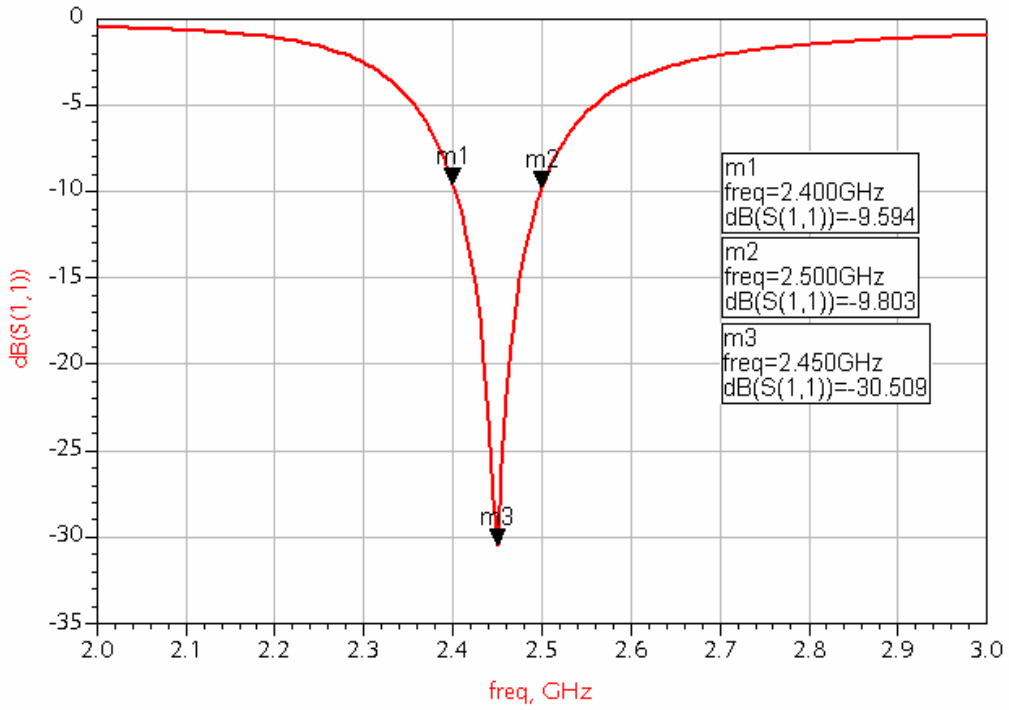
**Mounting Considerations**

## Return Loss & Isolation (With Matching Circuits)

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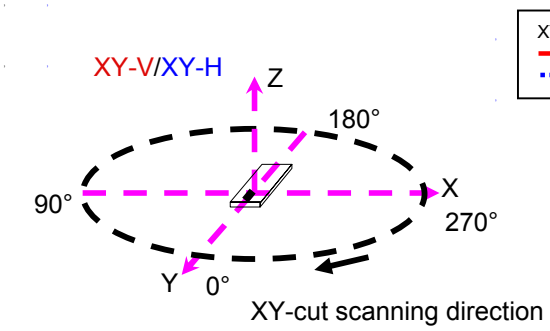
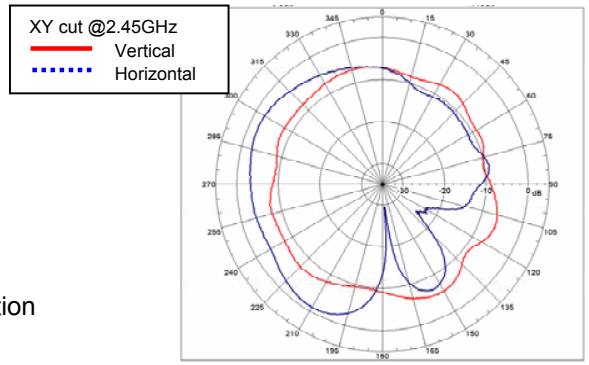
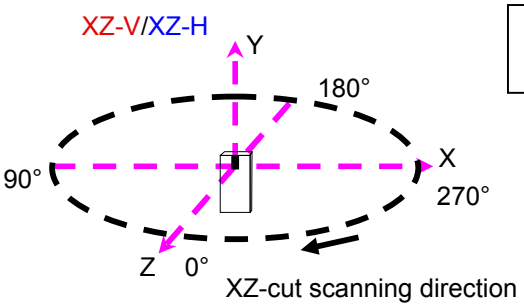
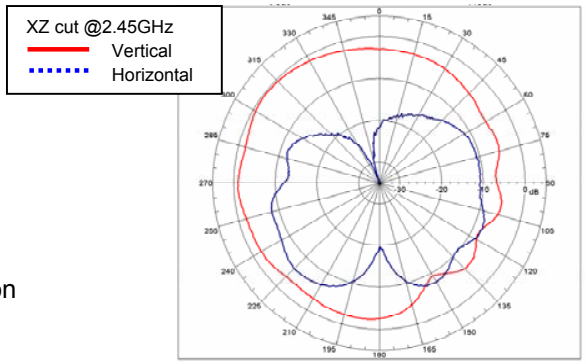
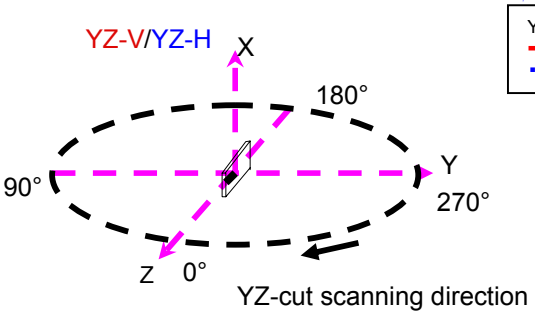
**Ant1 Radiation Patterns**

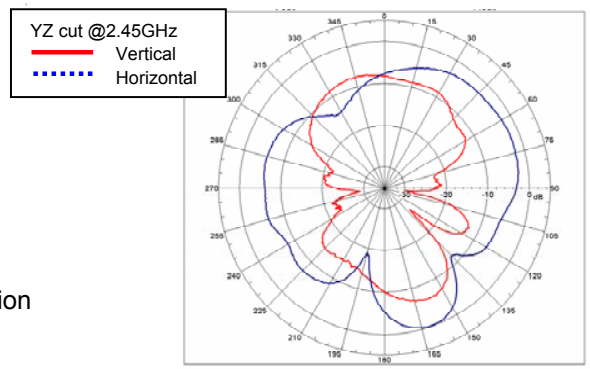
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