

2.45 GHz wide band, low profile antenna

P/N 2450AT43F0100

Detail Specification: 06/25/08

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General Specifications

| | |
|-----------------|-------------------------|
| Part Number | 2450AT43F0100 |
| Frequency Range | 2400 - 2500 |
| Peak Gain | 2.1 dBi typ. (XZ-total) |
| Average Gain | 1.0 dBi typ. (XZ-total) |
| Impedance | 50 Ω |
| Input Power | 2W max. |

| | |
|---------------------------|---|
| Operating Temperature | -40 to +85°C |
| Storage Temperature Range | +5~+35°C, Humidity 45~75%RH 12 mos. Max |
| Reel Quantity | 1,000 |

| No. | Function | Terminal Configuration |
|-----|---------------|------------------------|
| 1 | Feeding Point | |
| 2 | NC | |

Mechanical Dimensions

| | In | mm | | |
|---|--------------------|----------------|--|--|
| L | 0.236 ± 0.008 | 6.00 ± 0.20 | | |
| W | 0.079 ± 0.008 | 2.00 ± 0.20 | | |
| T | 0.047 +.004/-0.008 | 1.20 +0.1/-0.2 | | |
| a | 0.020 ± 0.012 | 0.50 ± 0.30 | | |

Case size/type 43-3

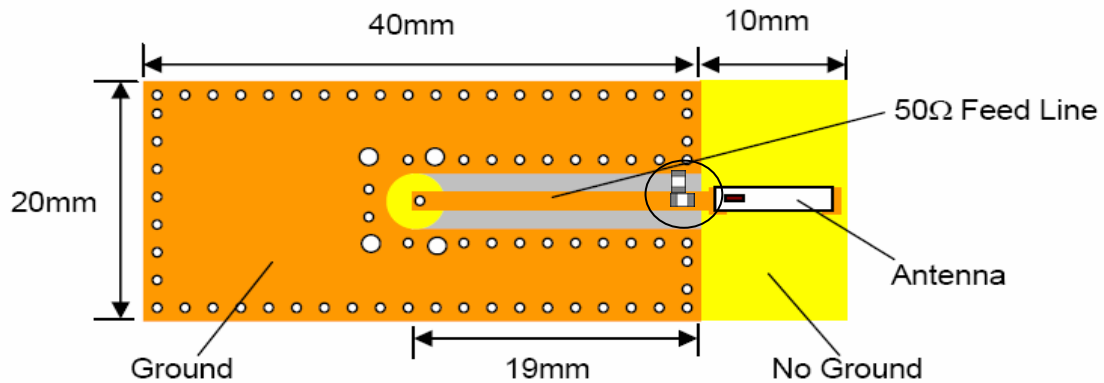
Mounting Considerations

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

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

** Matching circuit component values might vary slightly depending on PCB layout

With Matching Circuit



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

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High Frequency Ceramic Solutions

Preliminary

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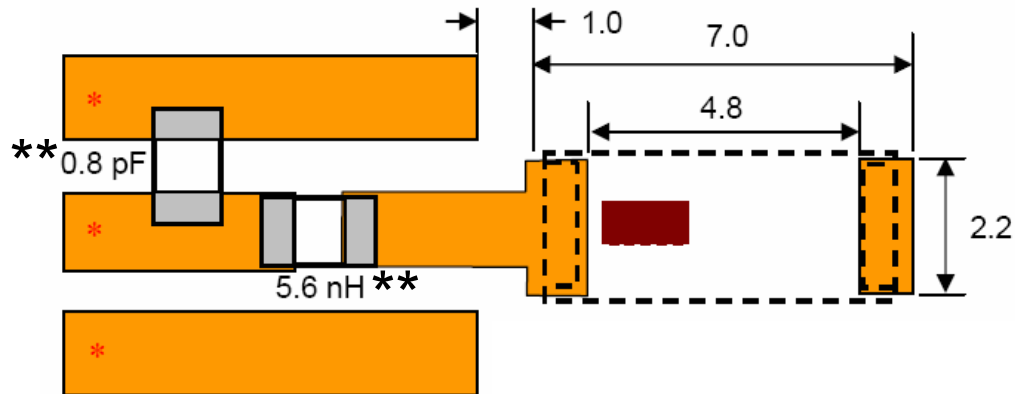
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Mounting Considerations

Matching Circuit



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

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High Frequency Ceramic Solutions

Preliminary

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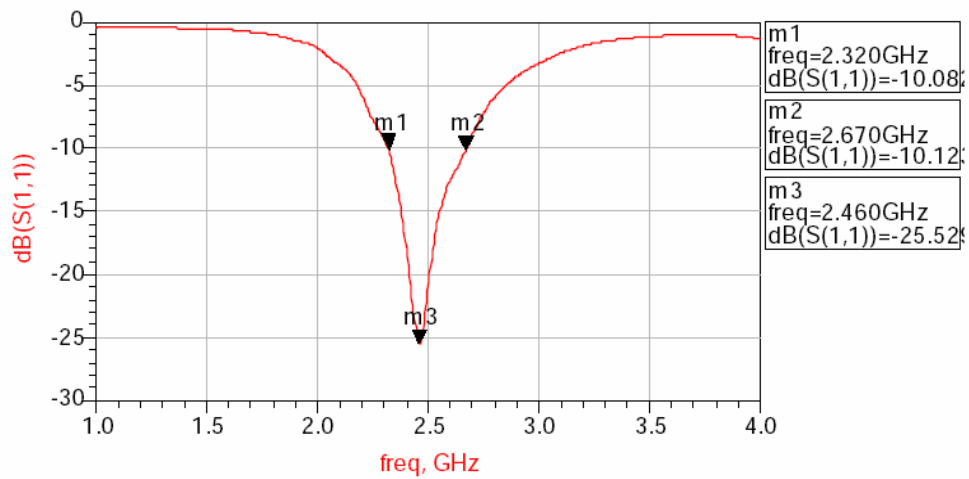
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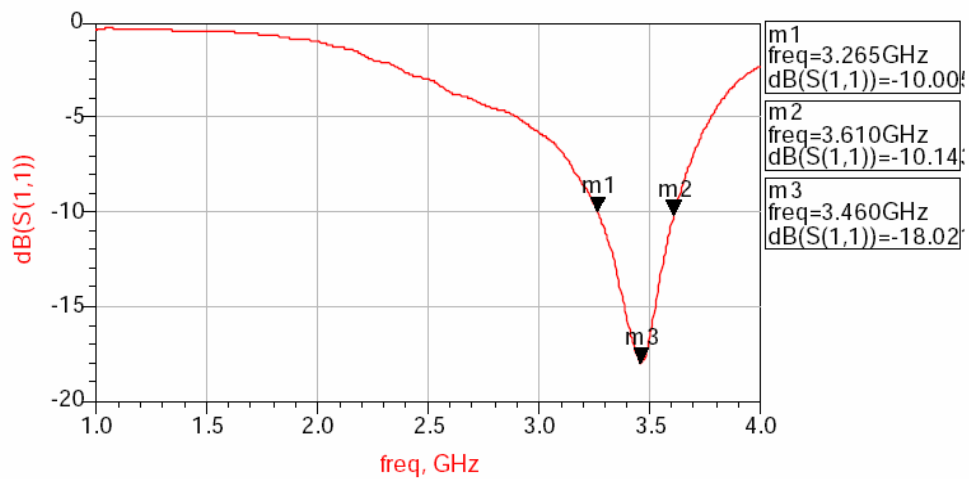
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Mounting Considerations

(a) With Matching Circuits



(b) Without Matching Circuits



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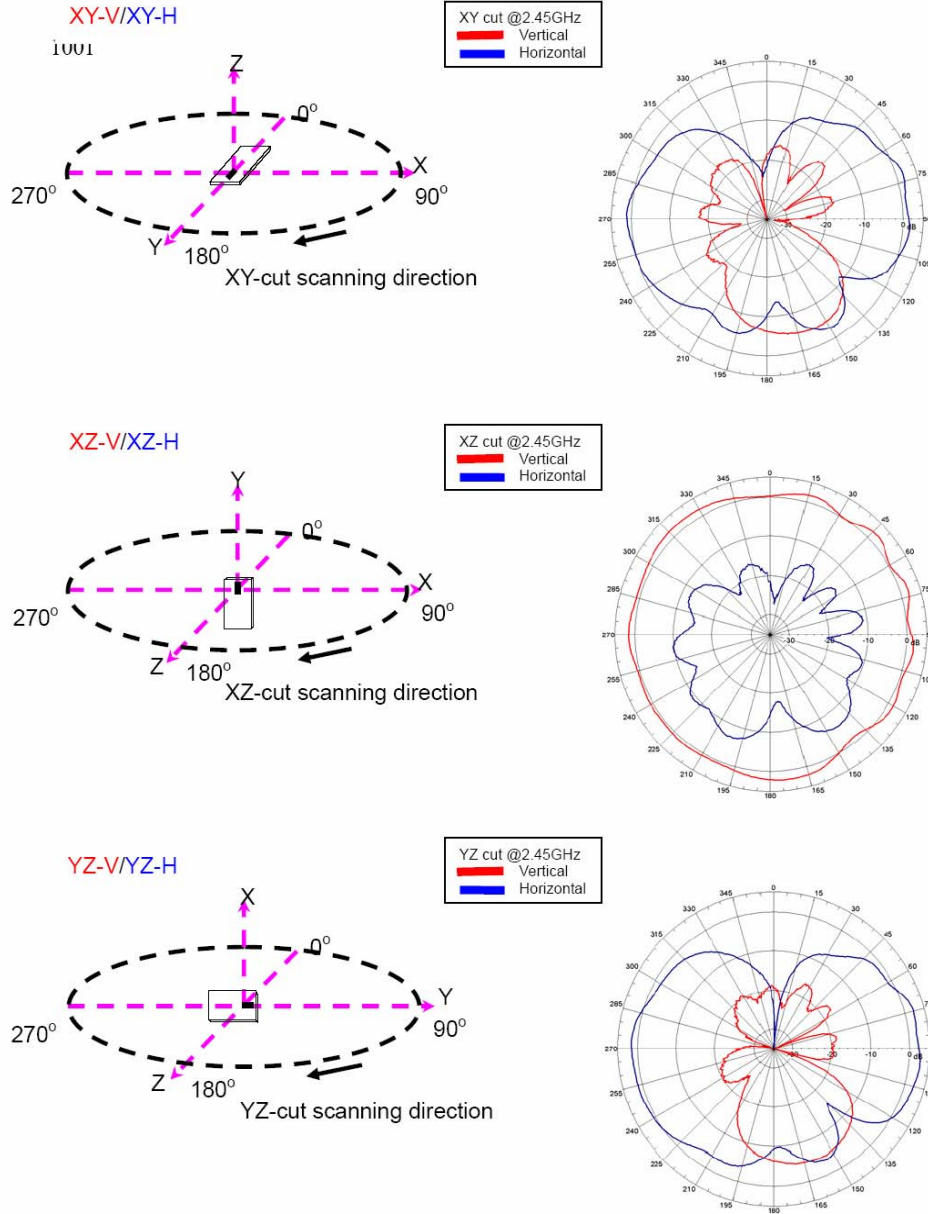
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Typical Radiation Patterns



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