

# High Frequency Ceramic Solutions

## WiMAX 2.3 - 2.7 GHz Chip Antenna

P/N 2500AT44M0400

Detail Specification: 07/29/09

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### General Specifications

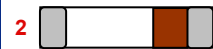
|                     |               |
|---------------------|---------------|
| Part Number         | 2500AT44M0400 |
| Freq. Range (MHz)   | 2300 - 2700   |
| Peak Gain (XZ-V)    | 2.5 dBi typ.  |
| Average Gain (XZ-V) | 0.5 dBi typ.  |
| Return Loss         | 9.5 dB min.   |

|                 |              |
|-----------------|--------------|
| Input Power     | 3W max.      |
| Impedance       | 50 $\Omega$  |
| Operating Temp. | -40 to +85°C |
| Reel Quantity   | 1,000        |

| P/N<br>Suffix | Packaging<br>Style   | Bulk       | Suffix = S    | Eg. 2500AT44M0400S           |
|---------------|----------------------|------------|---------------|------------------------------|
|               |                      | T & R      | Suffix = E    | Eg. 2500AT44M0400E           |
|               | Termination<br>Style | 100% Tin   | Suffix = None | Eg. 2500AT44M0400(E or S)    |
|               |                      | Tin / Lead | Suffix = /Pb  | Eg. 2500AT44M0400(E or S)/Pb |

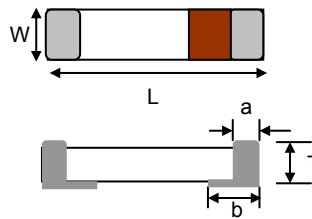
### Terminal Configuration

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



### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.315 $\pm$ 0.008 | 8.00 $\pm$ 0.20 |
| W | 0.039 $\pm$ 0.008 | 1.00 $\pm$ 0.20 |
| T | 0.039 $\pm$ 0.008 | 1.00 $\pm$ 0.20 |
| a | 0.020 $\pm$ 0.008 | 0.50 $\pm$ 0.20 |
| b | 0.039 $\pm$ 0.008 | 1.00 $\pm$ 0.20 |

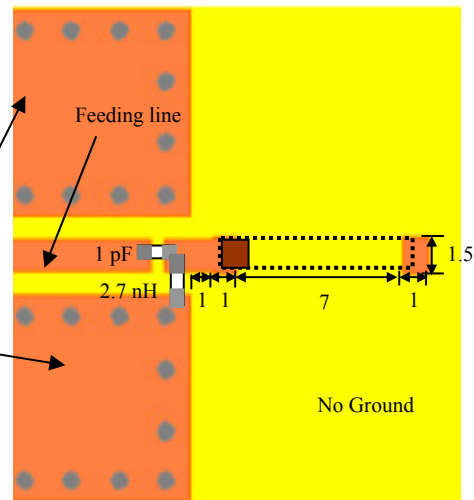


### Mounting Considerations

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

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

With  
Matching  
Circuits



JTI P/N for Matching Circuit:  
Cap (1.0pF): 500R07S1R0BV4T  
Inductor (2.7nH): L-07C2N7SV6T

(Matching circuit and component values will be different, depending on PCB layout)

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

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[www.johansontechnology.com](http://www.johansontechnology.com)

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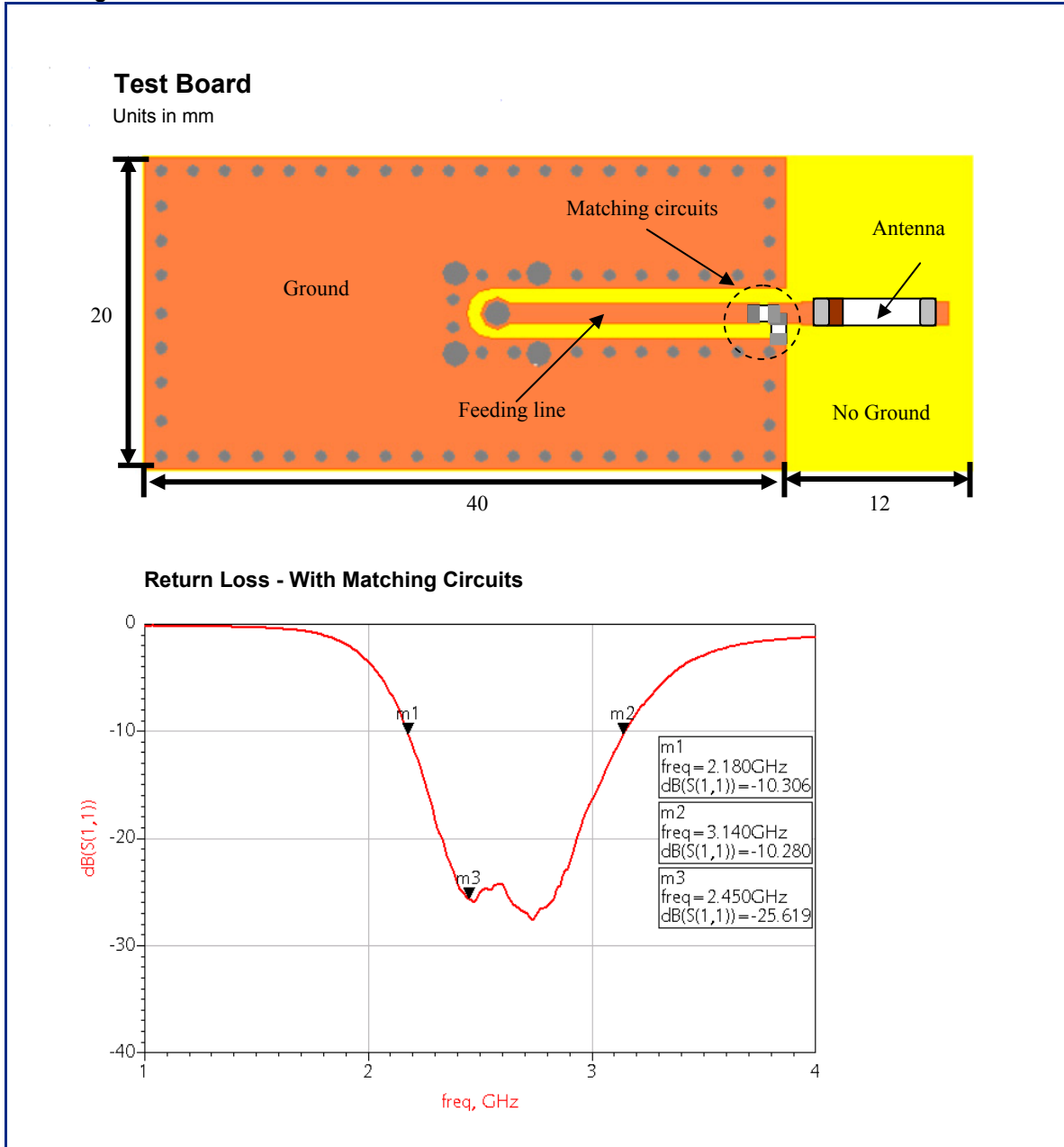
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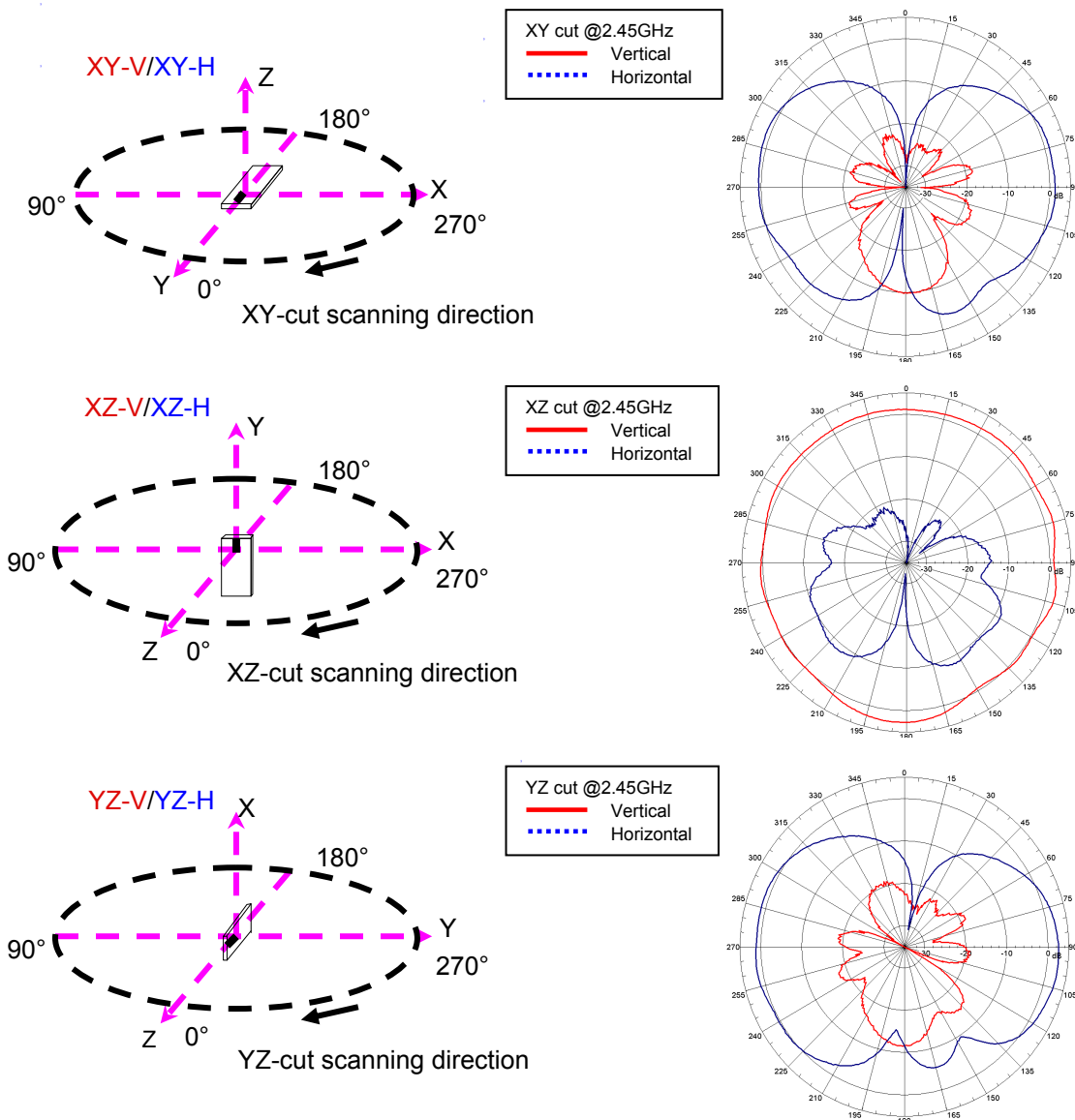
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## Ant1 Radiation Patterns



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