

# "High Frequency Ceramic Solutions"

## 2.45 GHz Antenna

Detail Specification: 12/21/03

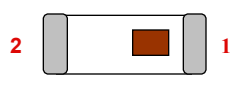
P/N 2450AT43A100

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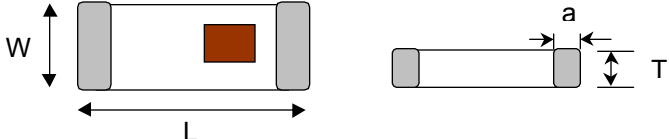
### General Specifications

|                 |                     |
|-----------------|---------------------|
| Part Number     | 2450AT43A100        |
| Frequency Range | 2400 - 2500 Mhz     |
| Peak Gain       | 2.0 dBi typ. (XZ-V) |
| Average Gain    | 0.5 dBi typ. (XZ-V) |
| Return Loss     | 9.5 dB min.         |

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

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

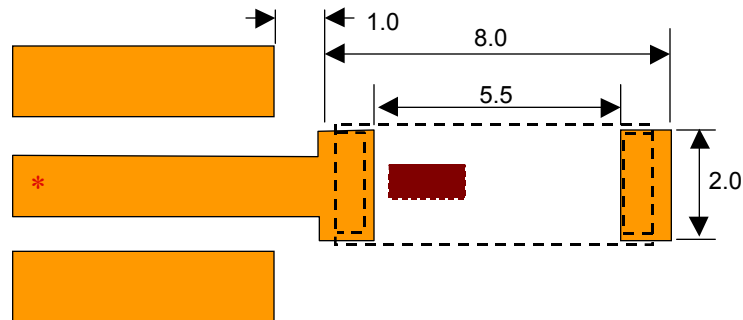
### Mechanical Dimensions

|   | In                | mm                  |  |
|---|-------------------|---------------------|--|
| L | 0.276 $\pm$ 0.008 | 7.00 $\pm$ 0.20     |  |
| W | 0.079 $\pm$ 0.008 | 2.00 $\pm$ 0.20     |  |
| T | 0.047 $\pm$ 0.008 | 1.20 $\pm$ 0.1/-0.2 |  |
| a | 0.020 $\pm$ 0.012 | 0.50 $\pm$ 0.30     |  |

### Mounting Considerations

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

\* Line width should be designed to provide 50 $\Omega$  impedance matching characteristics.



(Matching components, if used, will vary in value depending on PCB layout)

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

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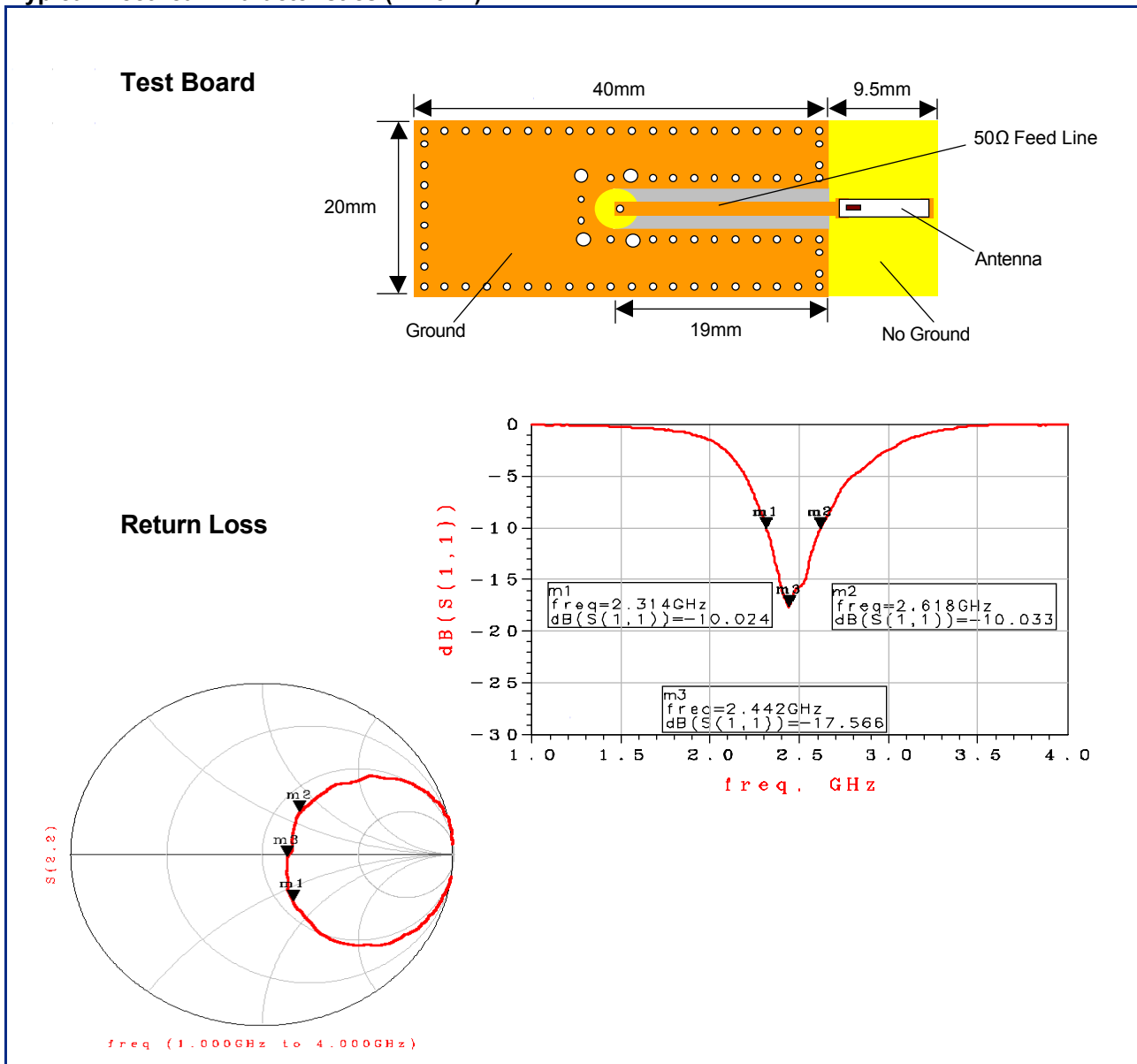
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### Typical Electrical Characteristics (T=25°C)



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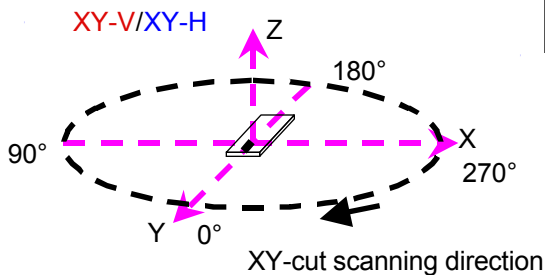
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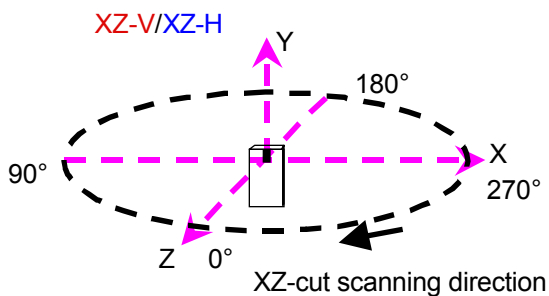
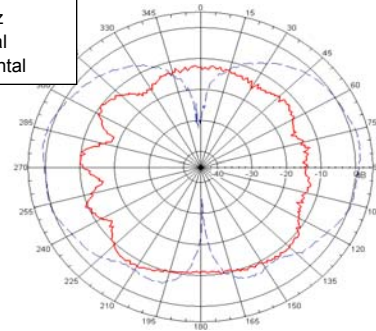
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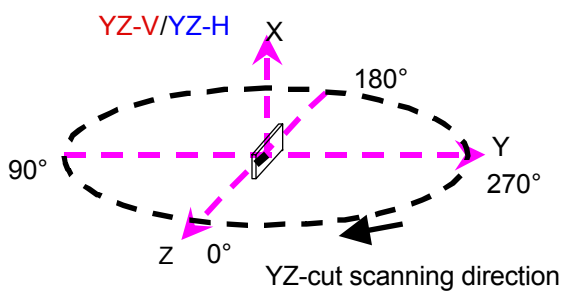
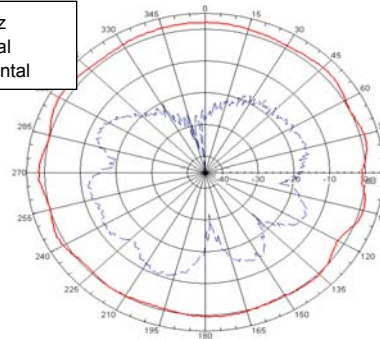
### Typical Radiation Patterns



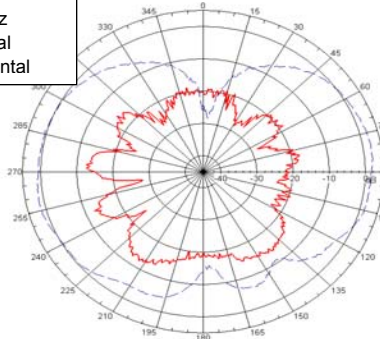
XY cut @2.45GHz  
— Vertical  
..... Horizontal



XZ cut @2.45GHz  
— Vertical  
..... Horizontal



YZ cut @2.45GHz  
— Vertical  
..... Horizontal



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