

"High Frequency Ceramic Solutions"

1.575 GHz Antenna

P/N 1575AT43A0040

Detail Specification: 10/27/09

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General Specifications

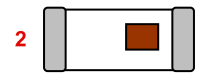
| | |
|-----------------|----------------------|
| Part Number | 1575AT43A0040 |
| Frequency Range | 1555 - 1595 Mhz |
| Peak Gain | -1.5 dBi typ. (XZ-V) |
| Average Gain | -2.5 dBi typ. (XZ-V) |
| Return Loss | 9.5 dB min. |

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

| P/N | Packaging Style | Bulk | Suffix = S | Eg. 1575AT43A40S |
|--------|-------------------|------------|---------------|----------------------------|
| | | T & R | Suffix = E | Eg. 1575AT43A40E |
| Suffix | Termination Style | 100% Tin | Suffix = None | Eg. 1575AT43A40(E or S) |
| | | Tin / Lead | Suffix = /Pb | Eg. 1575AT43A40(E or S)/Pb |

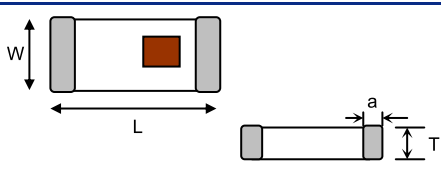
Terminal Configuration

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



Mechanical Dimensions

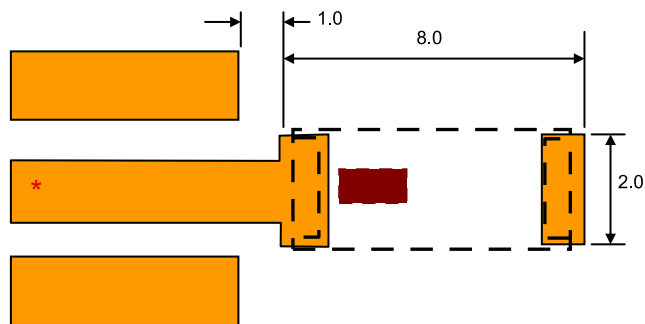
| | In | mm |
|---|-------------------|----------------|
| L | 0.276 - 0.008 | 7.00 - 0.20 |
| W | 0.079 - 0.008 | 2.00 - 0.20 |
| T | 0.031 +.004/-.008 | 0.80 +0.1/-0.2 |
| a | 0.020 - 0.012 | 0.50 - 0.30 |



Mounting Considerations

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

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



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

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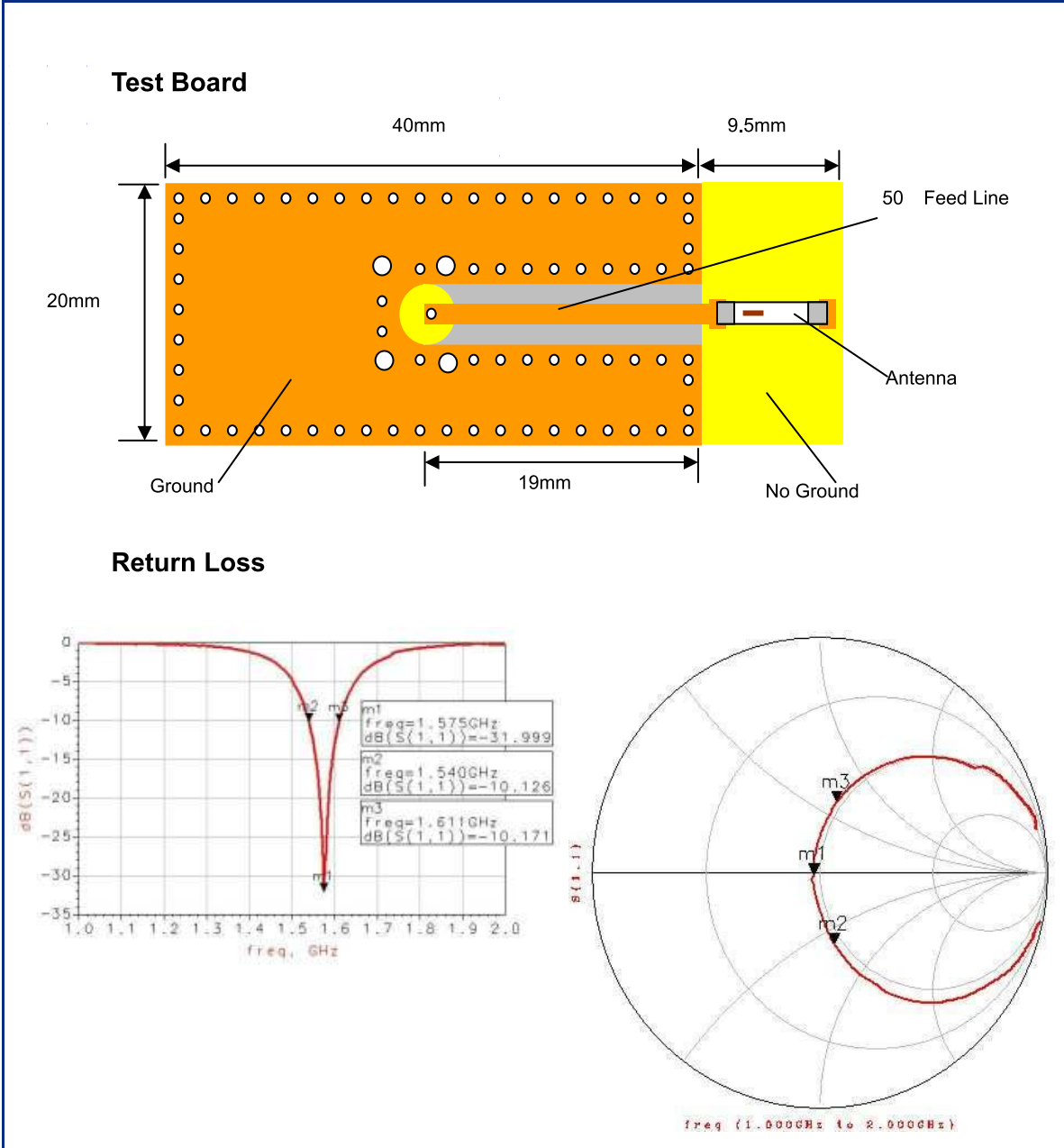
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Mounting Considerations



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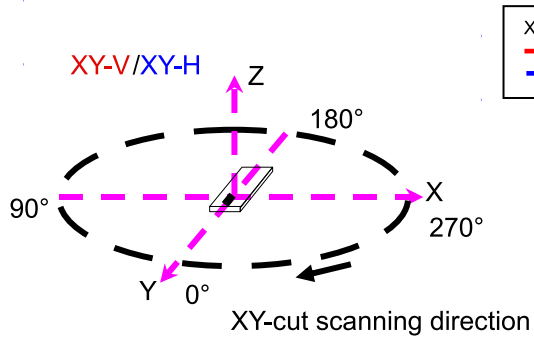
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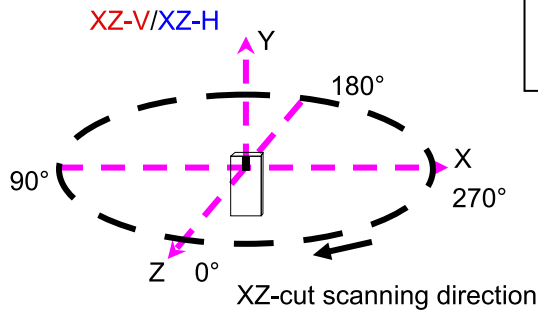
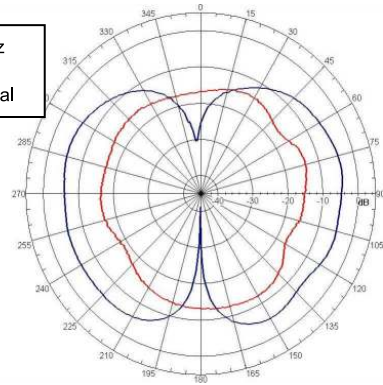
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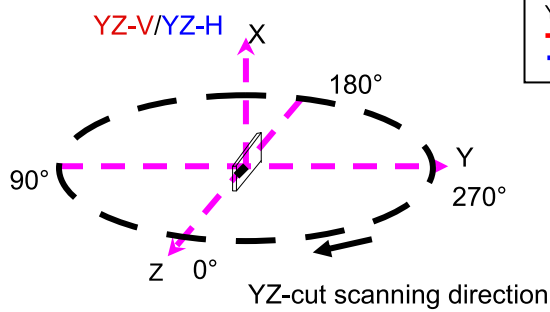
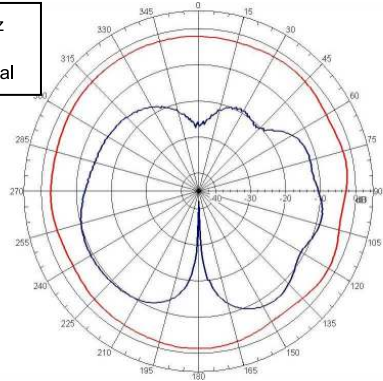
Typical Radiation Patterns



XY cut @1.575GHz
— Vertical
- - - Horizontal



XZ cut @1.575GHz
— Vertical
- - - Horizontal



YZ cut @1.575GHz
— Vertical
- - - Horizontal

