

"High Frequency Ceramic Solutions"

2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 09/03/03

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General Specifications

| | |
|-----------------|--------------------|
| Part Number | 2450AT42A100 |
| Frequency Range | 2400 - 2500 Mhz |
| Peak Gain | 0 dBi typ. (XZ-V) |
| Average Gain | -1 dBi typ. (XZ-V) |
| Return Loss | 9.5 dB min. |

| | |
|-----------------------|--------------|
| Input Power | 3 Watts max. |
| Impedance | 50 Ω |
| Operating Temperature | -40 to +85°C |
| Reel Quantity | 2,000 |

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

Mechanical Dimensions

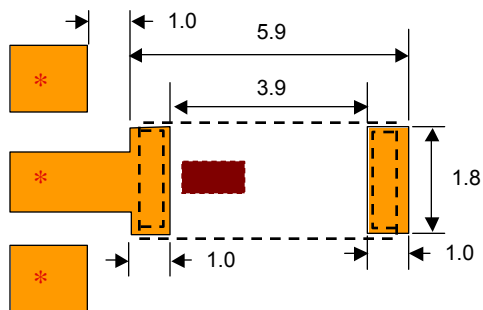
| | In | mm |
|---|---------------|-------------|
| L | 0.197 ± 0.008 | 5.00 ± 0.20 |
| W | 0.079 ± 0.008 | 2.00 ± 0.20 |
| T | 0.043 ± 0.008 | 1.10 ± 0.20 |
| a | 0.020 ± 0.012 | 0.50 ± 0.30 |

Mounting Considerations

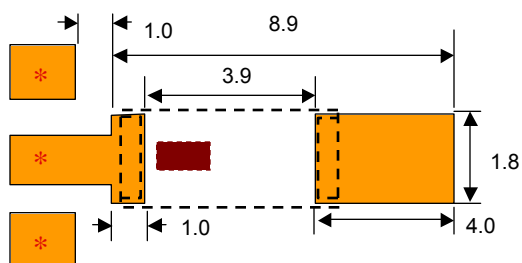
Mount these devices with brown mark facing up. Units: mm

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

a) Without Matching Circuits



b) With Matching Circuits



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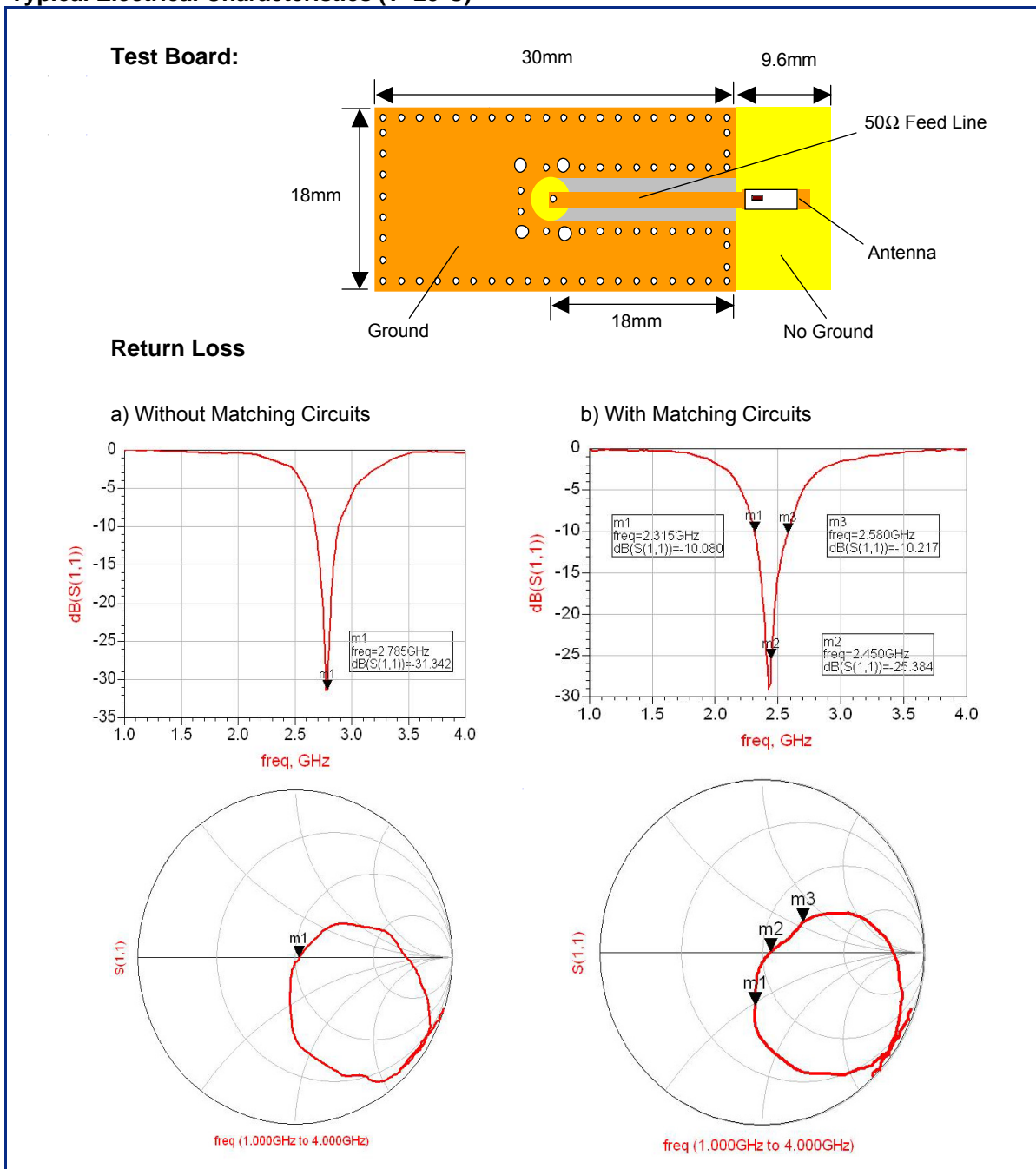
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Typical Electrical Characteristics (T=25°C)



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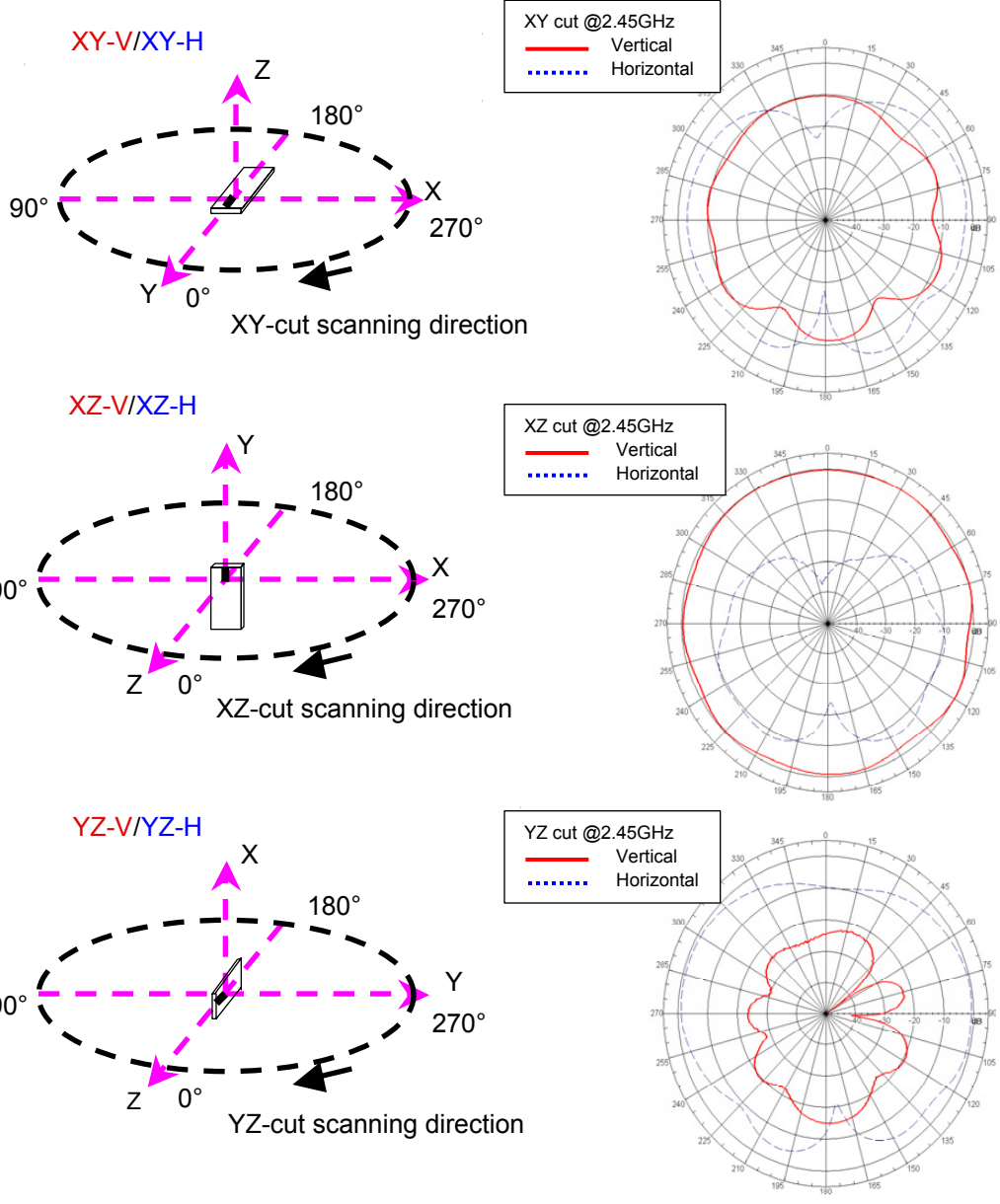
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Typical Radiation Patterns



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