

"High Frequency Ceramic Solutions"

1575MHz GPS Ultra-Compact Ceramic Chip Antenna

P/N 1575AT44A0010

Detail Specification: 9/24/2012

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General Specifications

| | |
|-------------------------|---------------|
| Part Number | 1575AT44A0010 |
| Frequency Range | 1570~1580 MHz |
| Peak Gain (XZ-total) | 0.5 dBi typ. |
| Average Gain (XZ-total) | -2.0 dBi typ. |
| Return Loss | 9.5 dB min. |

| | |
|-----------------------|--|
| Input Power | 2W max. |
| Impedance | 50 Ω |
| Reel Quantity | 1000 |
| Operating Temperature | -40 to +85°C |
| Storage Temperature | +5 to +35°C, Humidity: 45-75%RH, 18 mos. Max |

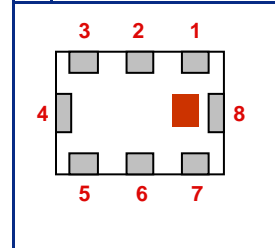
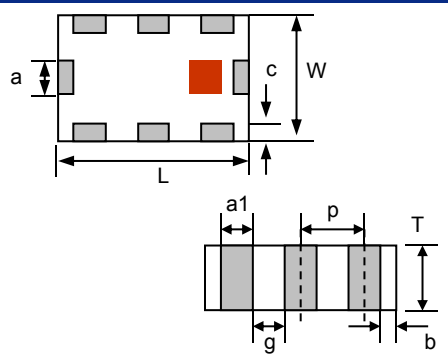
| | | | | |
|------------|------------------------|----------------------|------------------------|---------------------------|
| P/N Suffix | Packaging Style | Bulk | Suffix = S | Eg. 1575AT44A0010S |
| | | T & R | Suffix = E | Eg. 1575AT44A0010E |
| | Termination Style | 100% Tin | Suffix = None | Eg. 1575AT44A0010(E or S) |
| | | Tin / Lead | Please consult Factory | |
| | EVB with SMA Connector | 1575AT44A0010-EB1SMA | | |

Terminal Configuration

| No. | Function |
|-----|----------|
| 1 | GND |
| 2 | NC |
| 3 | NC |
| 4 | GND |
| 5 | NC |
| 6 | NC |
| 7 | Feeding |
| 8 | GND |

Mechanical Dimensions

| | In | mm |
|----|--------------------|----------------|
| L | 0.177 ± 0.012 | 4.50 ± 0.30 |
| W | 0.122 ± 0.012 | 3.10 ± 0.30 |
| T | 0.059 ± 0.004 | 1.50 ± 0.10 |
| a1 | 0.022 ± 0.008 | 0.55 ± 0.20 |
| a2 | 0.079 ± 0.008 | 2.00 ± 0.20 |
| b | 0.004 min | 0.1 min |
| c | 0.012 +.004/-0.008 | 0.30 +0.1/-0.2 |
| g | 0.043 ± 0.006 | 1.10 ± 0.15 |
| p | 0.065 ± 0.008 | 1.65 ± 0.20 |



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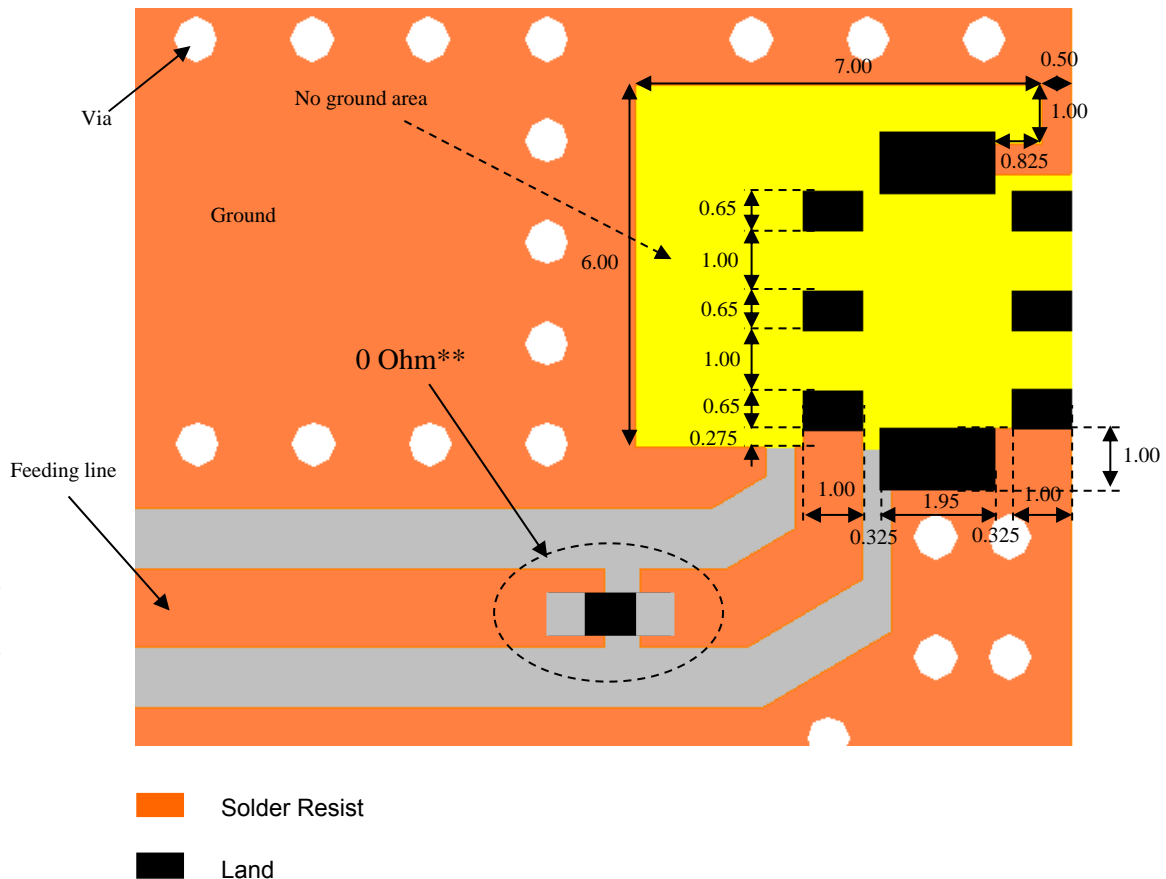
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Mounting Considerations

* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Without Matching Circuits - Units in mm



**When doing the layout of your PCB make sure you leave place holders for a "shunt-series-shunt" (Pi) matching network in your preferred case size. For any further questions, contact our engineering support team at:

<http://www.johansontechnology.com/en/ask-a-technical-question.html>

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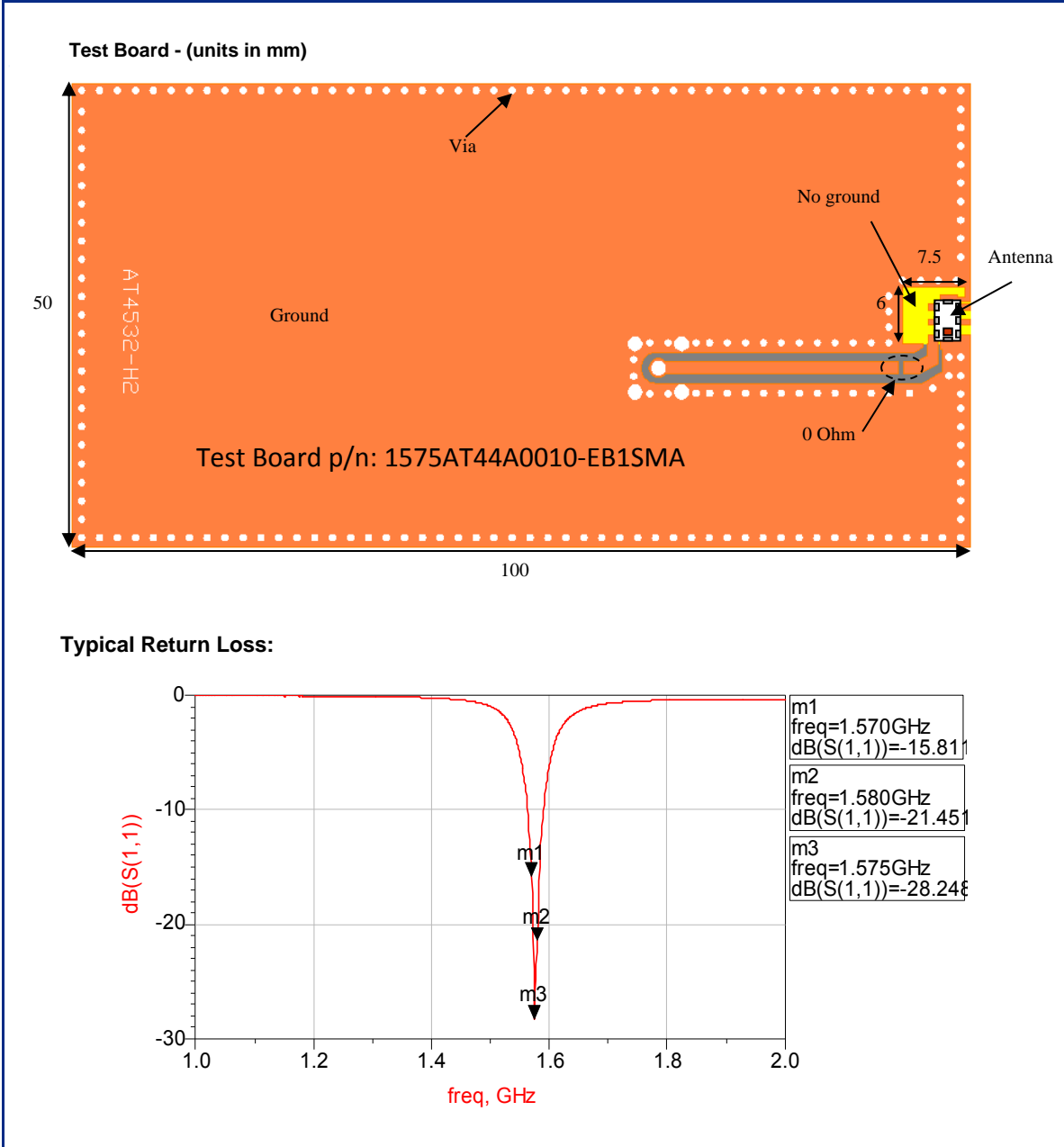
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Typical Electrical Characteristics (T=25°C)



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Preliminary

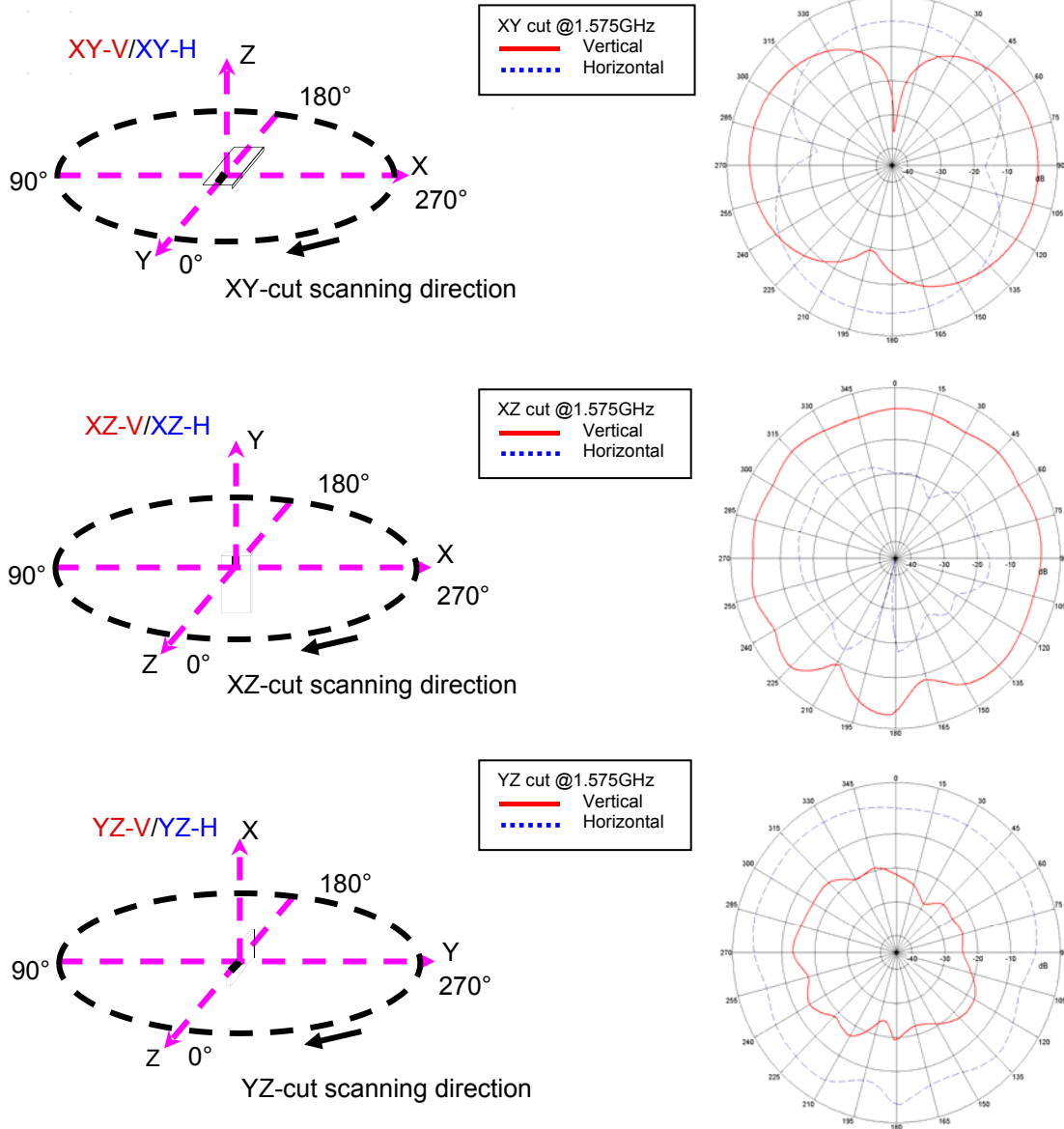
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Typical Radiation Patterns



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