

# "High Frequency Ceramic Solutions"

## 2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 08/29/2008

Page 1 of 3

### 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 $\Omega$  |
| Operating Temperature | -40 to +85°C |
| Reel Quantity         | 2,000        |

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

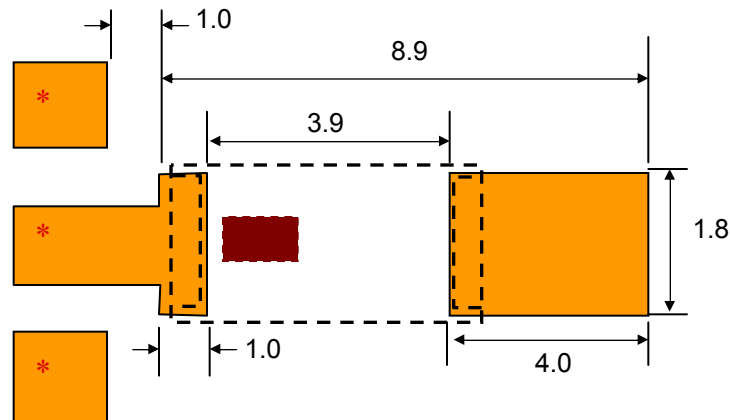
### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.197 $\pm$ 0.008 | 5.00 $\pm$ 0.20 |
| W | 0.079 $\pm$ 0.008 | 2.00 $\pm$ 0.20 |
| T | 0.043 $\pm$ 0.008 | 1.10 $\pm$ 0.20 |
| 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.



Units:mm

Johanson Technology, Inc. reserves the right to make design changes without notice.  
All sales are subject to Johanson Technology, Inc. terms and conditions.

# "High Frequency Ceramic Solutions"

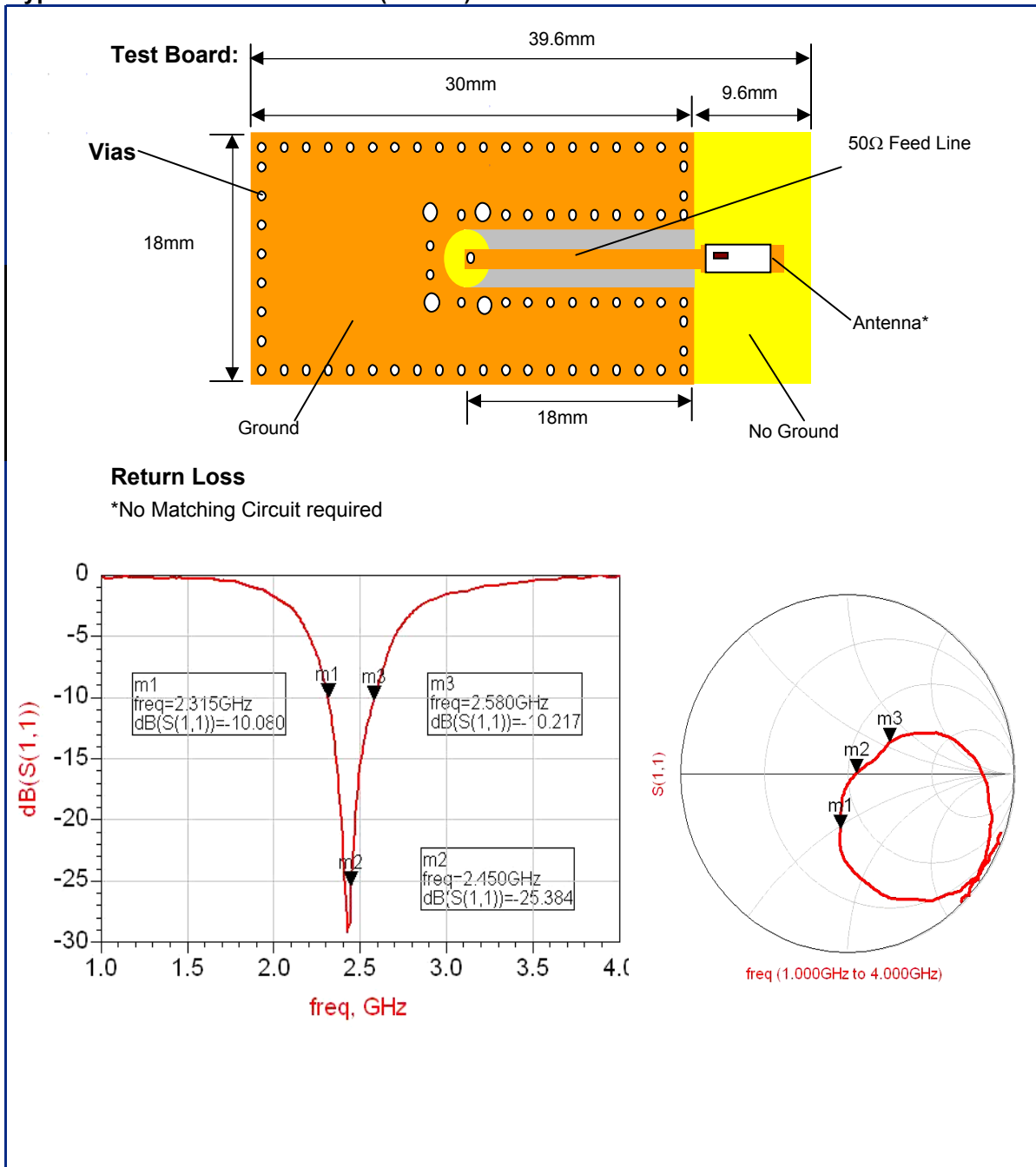
## 2.45 GHz Antenna

P/N 2450AT42A100

Detail Specification: 08/29/2008

Page 2 of 3

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



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

All sales are subject to Johanson Technology, Inc. terms and conditions.

# "High Frequency Ceramic Solutions"

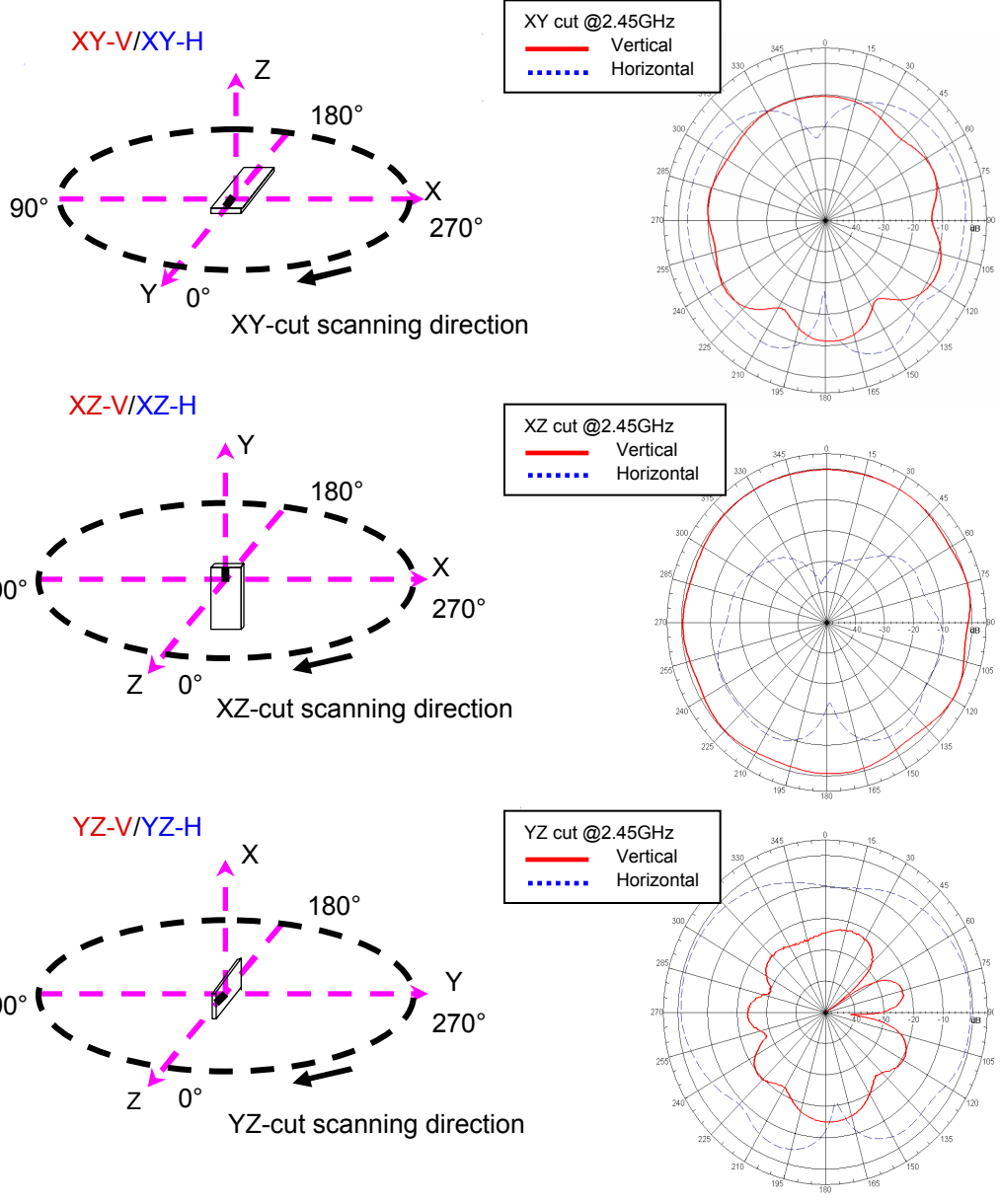
**2.45 GHz Antenna**

**P/N 2450AT42A100**

Detail Specification: 08/29/2008

Page 2 of 3

## Typical Radiation Patterns



Johanson Technology, Inc. reserves the right to make design changes without notice.  
 All sales are subject to Johanson Technology, Inc. terms and conditions.

