

# "High Frequency Ceramic Solutions"

## 5.25 GHz Antenna

P/N 5250AT43A200

Detail Specification: 09/02/04

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### General Specifications

Part Number	5250AT43A200
Frequency Range	5150 - 5350 Mhz
Peak Gain	3.6 dBi typ. (XZ-V)
Average Gain	-2.3 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

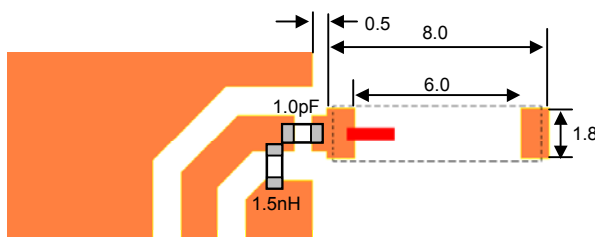
	In	mm
L	0.276 $\pm$ 0.008	7.00 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.047 +.004/-0.008	1.20 +0.1/-0.2
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30

### Mounting Considerations (Close Up)

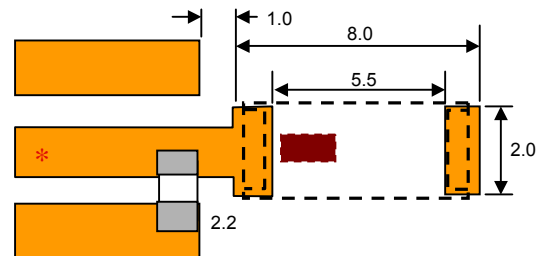
Mount these devices with brown mark facing up. Units: mm

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

#### With Matching Circuit (Horizontal Mounting Situation)



#### With Matching Circuit (Vertical Mounting Situation)



(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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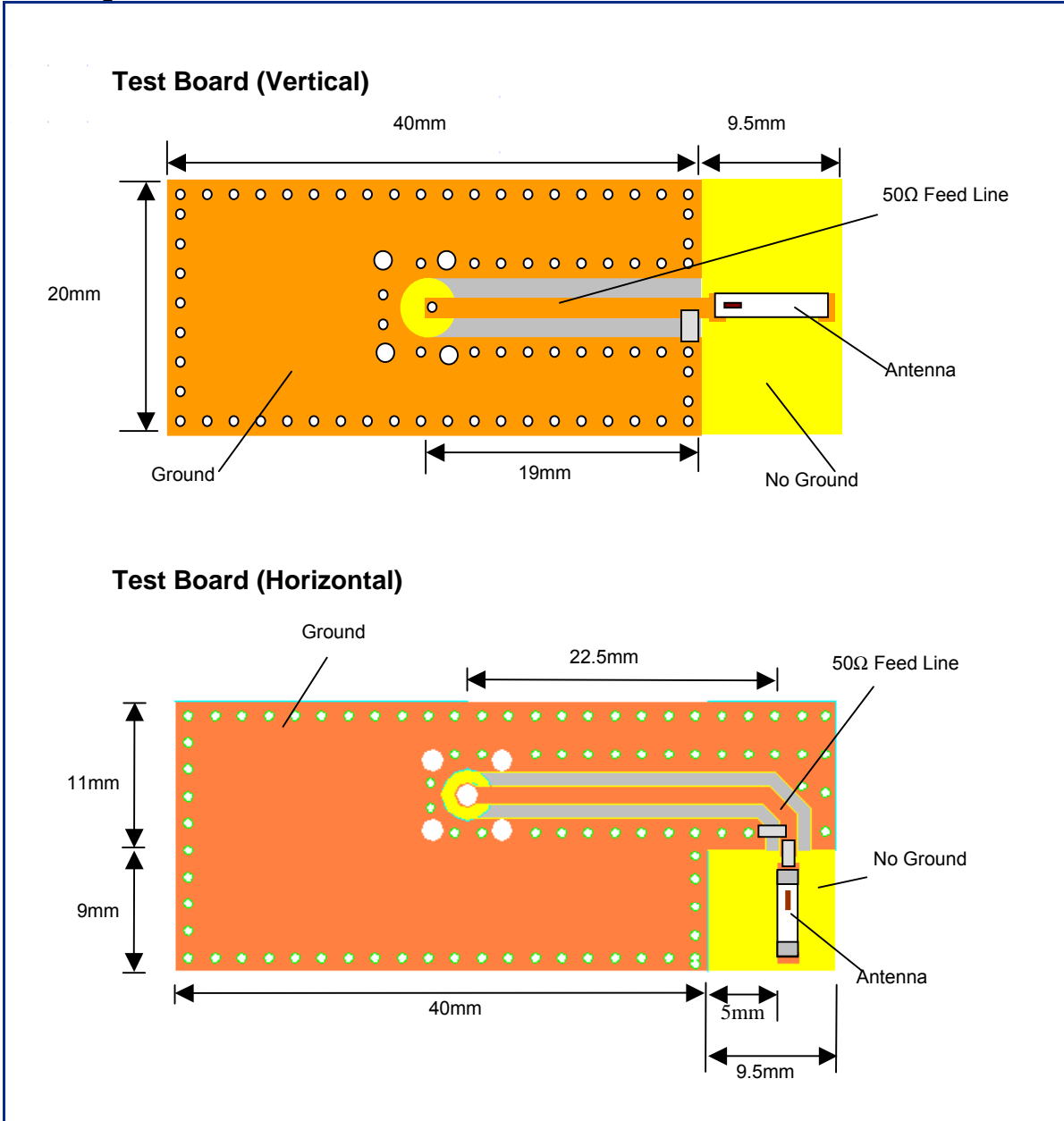
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### Mounting Considerations



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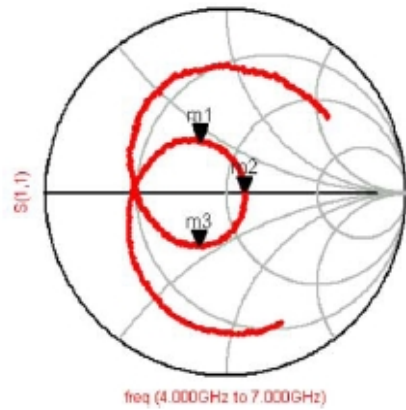
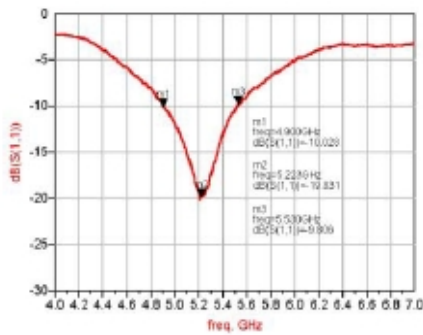
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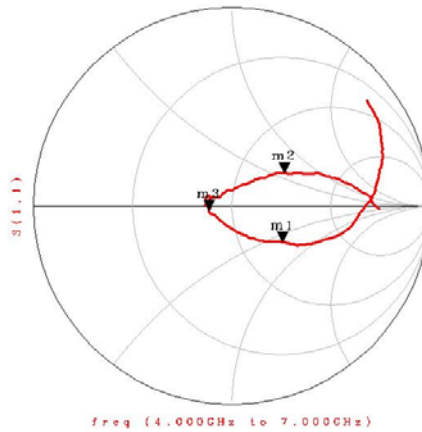
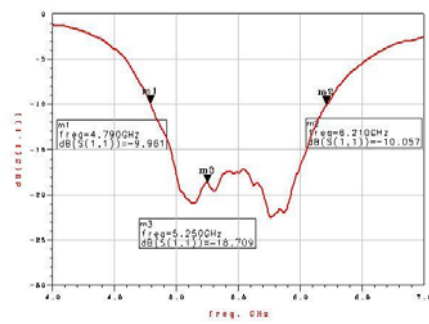
### Typical Electrical Characteristics (T=25°C)

#### Return Loss

Vertical Test Board  
(with matching components)



Horizontal Test Board  
(with matching components)



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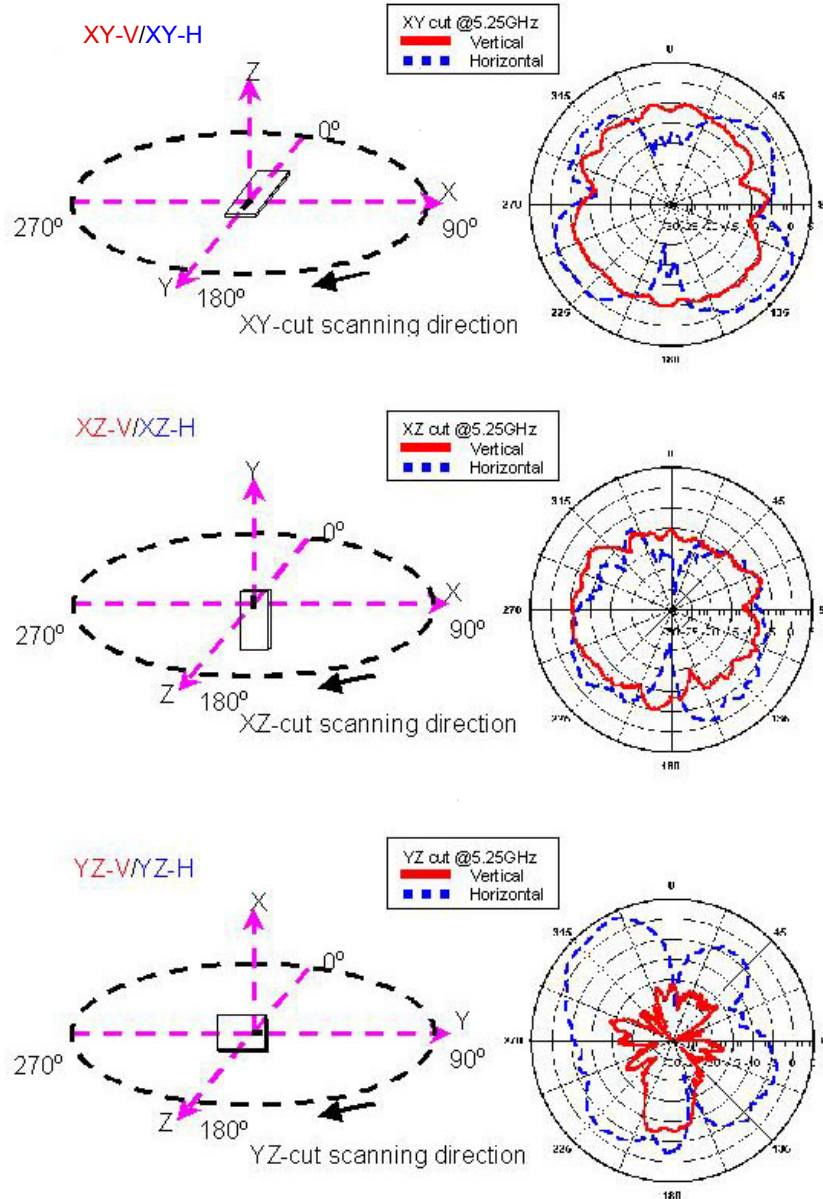
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### Typical Radiation Patterns (Vertical Test Board)



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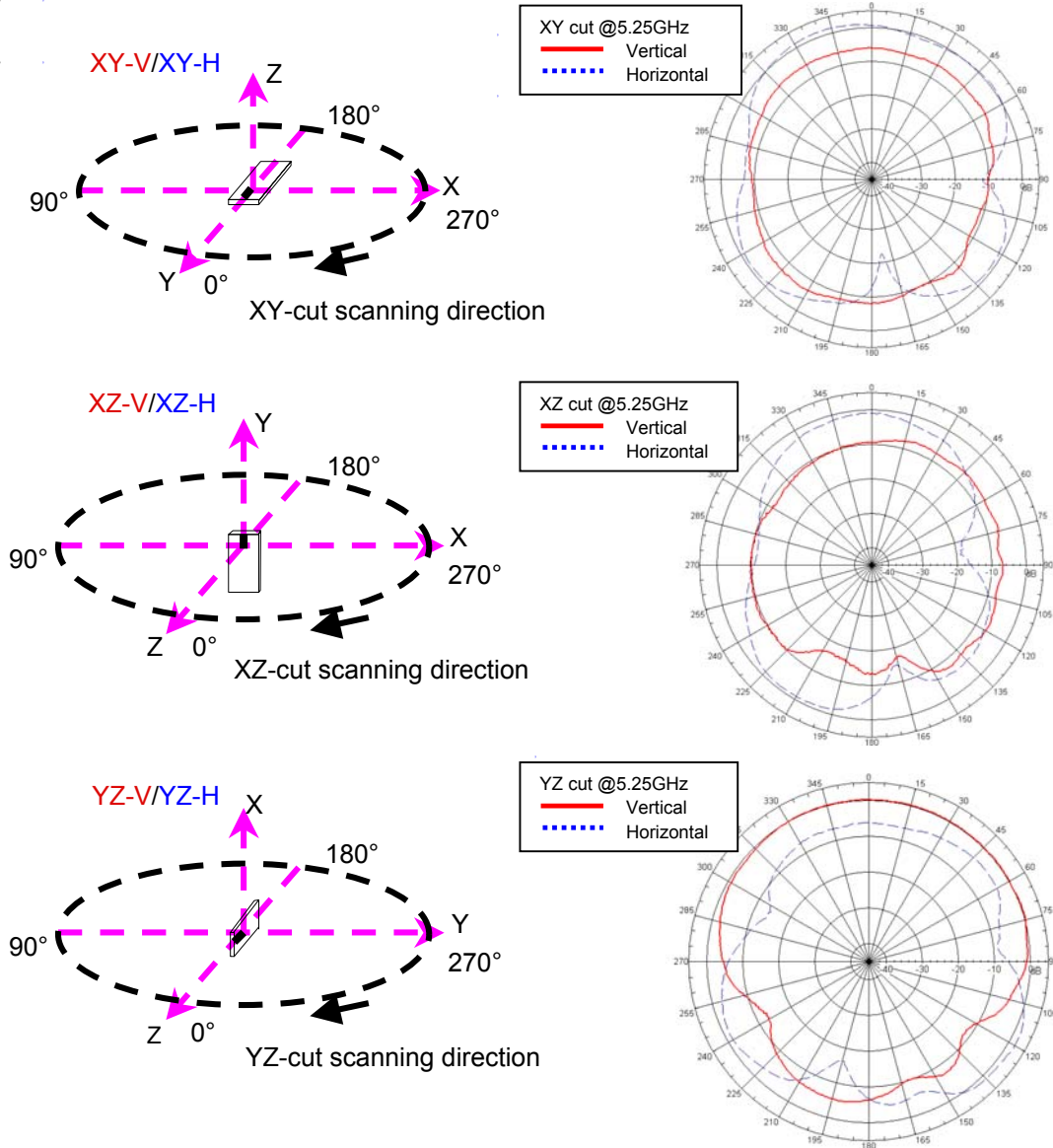
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### Typical Radiation Patterns (Horizontal Test Board)



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