

"High Frequency Ceramic Solutions"

5.775 GHz Antenna

Detail Specification: 03/09/05

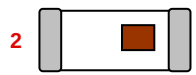
P/N 5775AT43A100

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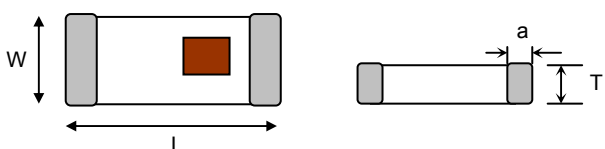
General Specifications

Part Number	5775AT43A100
Frequency Range	5725 - 5825 Mhz
Peak Gain	3.9 dBi typ. (XZ-V)
Average Gain	-1.5 dBi typ. (XZ-V)
Return Loss	9.5 dB min.

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

No.	Function	Terminal Configuration
1	Input	
2	NC	

Mechanical Dimensions

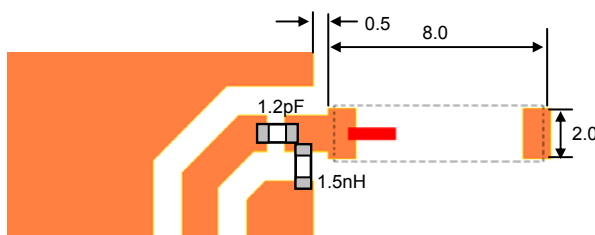
	In	mm	
L	0.276 $\pm$ 0.008	7.00 $\pm$ 0.20	
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20	
T	0.047 $\pm$ 0.004/-0.008	1.20 $\pm$ 0.1/-0.2	
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30	

Mounting Considerations (Close Up)

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

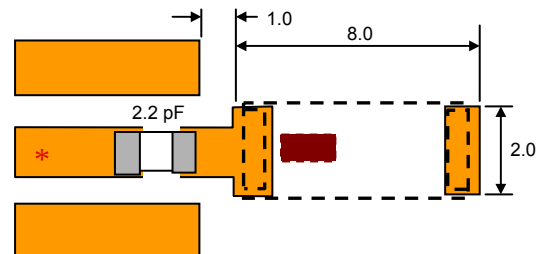
* Line width should be designed to provide 50 Ω impedance matching characteristics.

With Matching Circuit (Horizontal Mounting Situation)



JTI P/N for Matching Circuit:
Cap (1.2pF): 500R07S1R2BV4T
Inductor (1.5nH): L-07C1N5SV6T

With Matching Circuit (Vertical Mounting Situation)



JTI P/N for Matching Circuit:
Cap (2.2pF): 500R07S2R2BV4T

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

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www.johansontechnology.com

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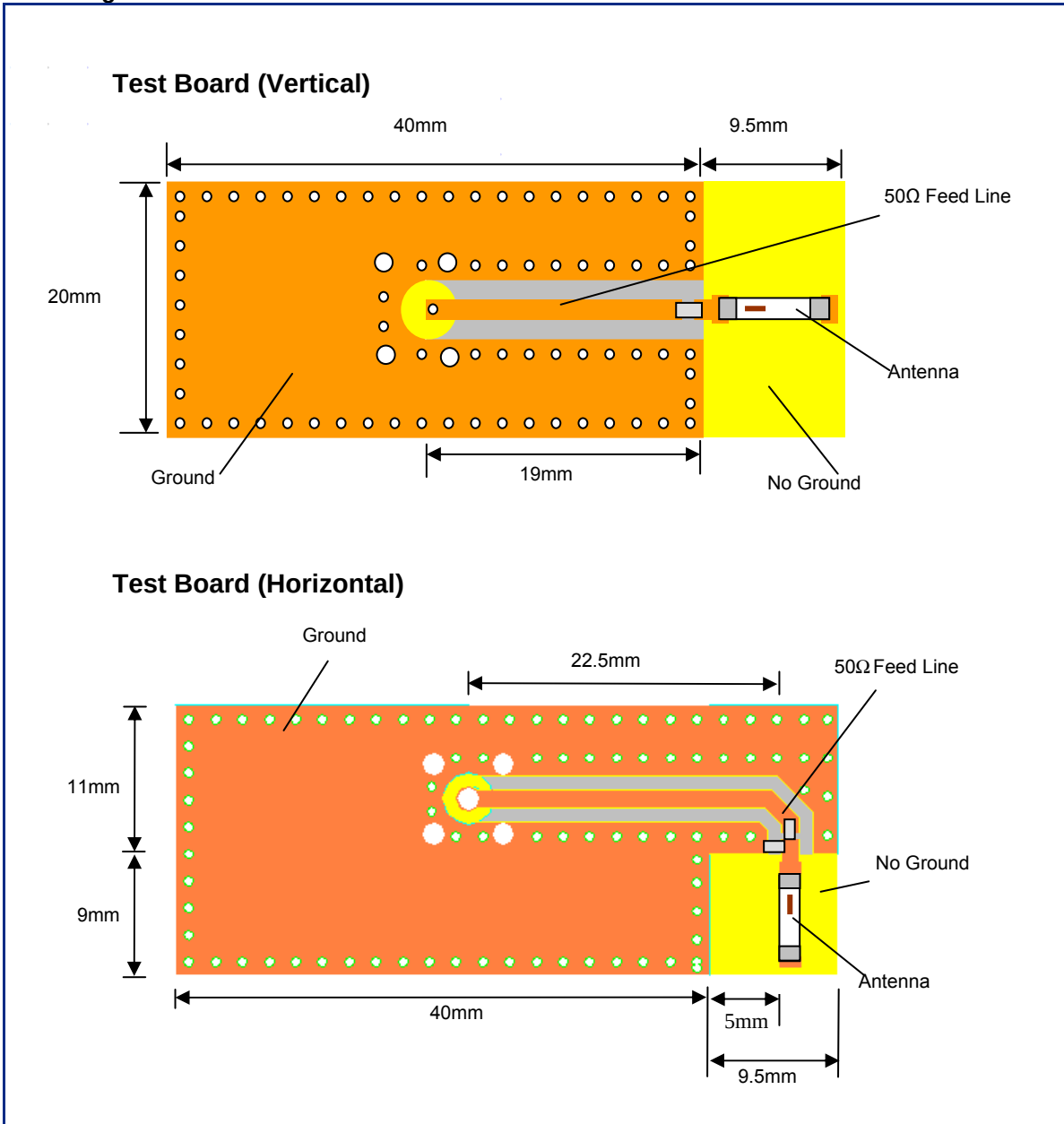
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Mounting Considerations



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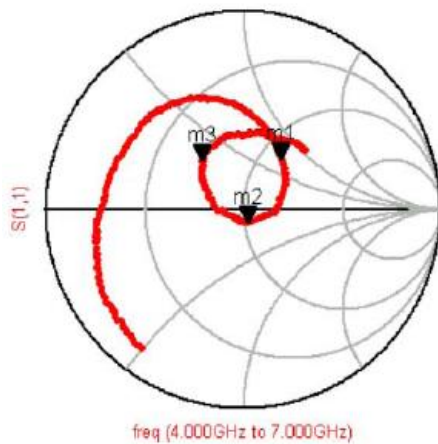
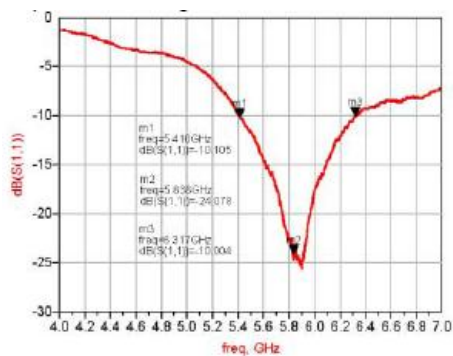
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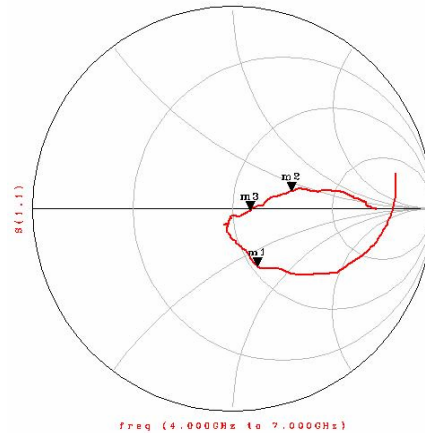
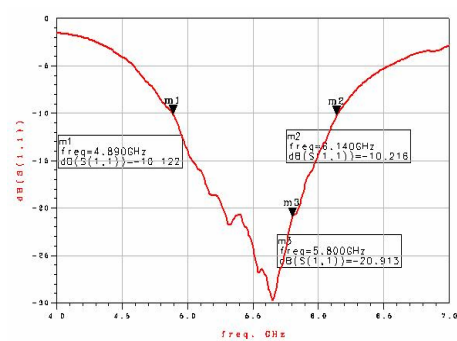
Typical Electrical Characteristics (T=25°C)

Return Loss

**Vertical Test Board
(with matching components)**



**Horizontal Test Board
(with matching components)**



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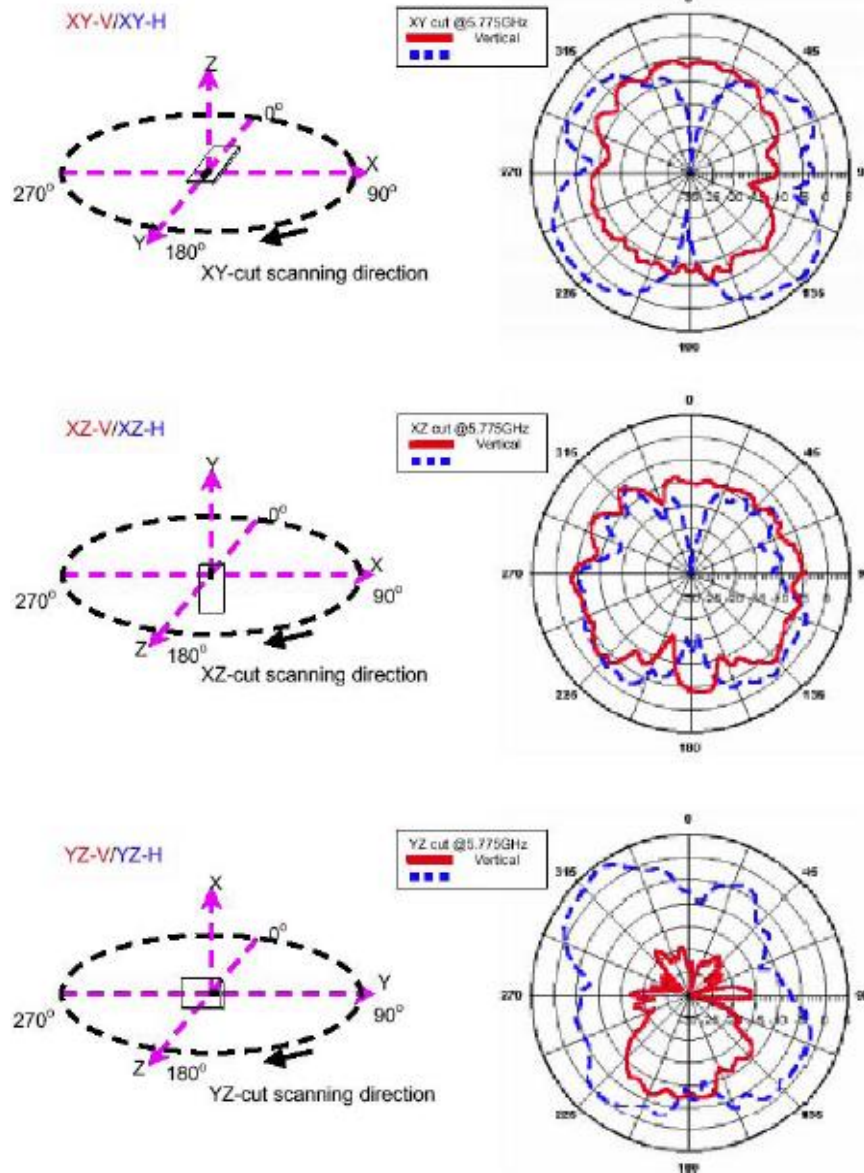
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Typical Radiation Patterns (Vertical Test Board)



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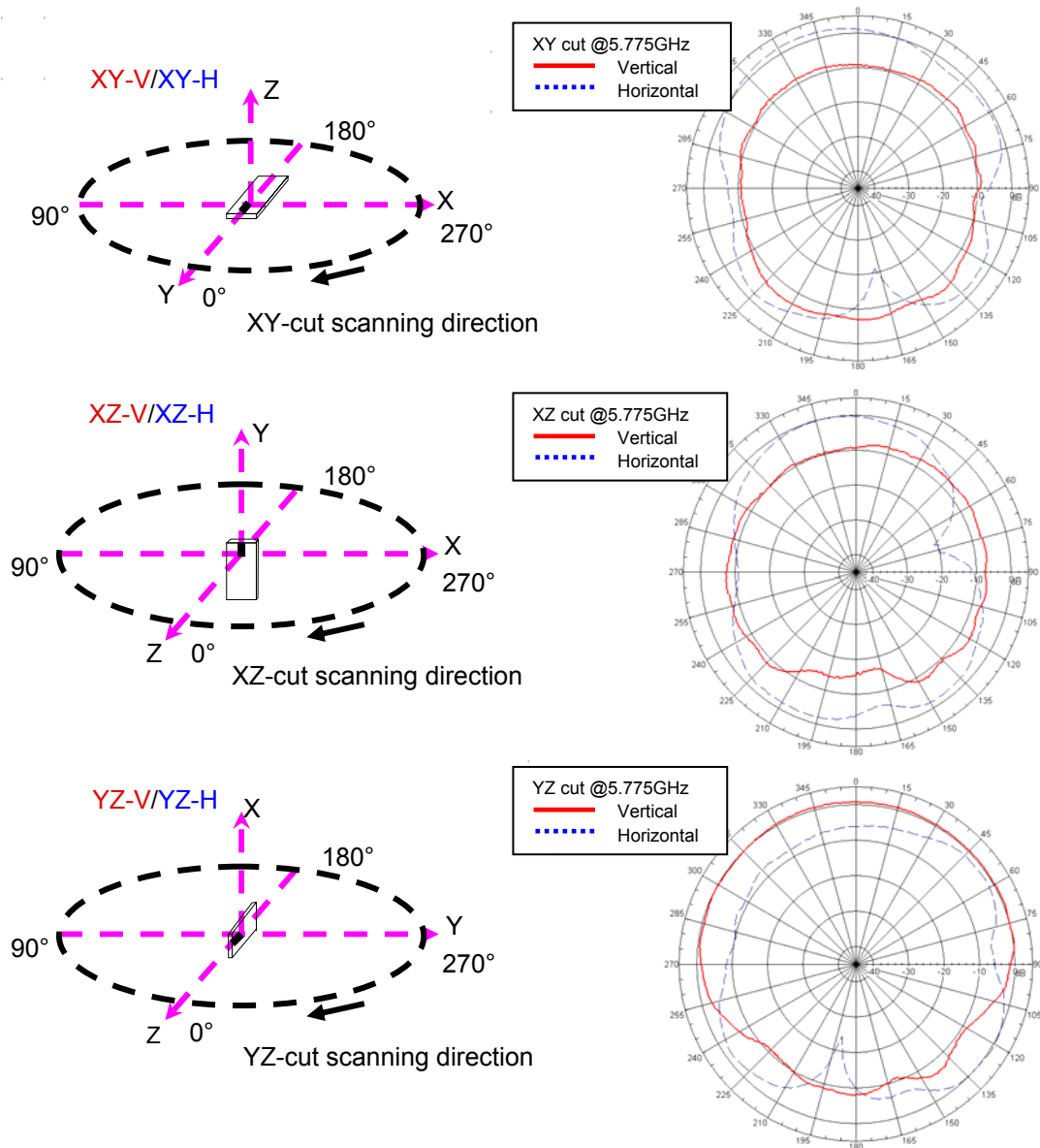
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Typical Radiation Patterns (Horizontal Test Board)



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