



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"High Frequency Ceramic Solutions"

5.775 GHz Antenna

P/N 5775AT43A100

Detail Specification: 03/09/05

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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

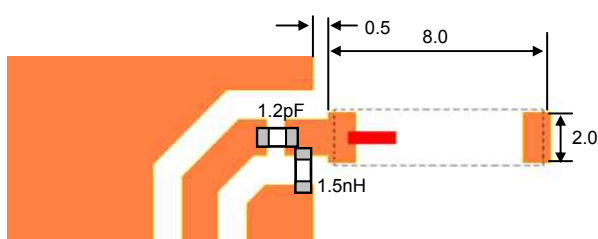
	In	mm	
L	0.276 ± 0.008	7.00 ± 0.20	
W	0.079 ± 0.008	2.00 ± 0.20	
T	0.047 +.004/-0.008	1.20 +0.1/-0.2	
a	0.020 ± 0.012	0.50 ± 0.30	

Mounting Considerations (Close Up)

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

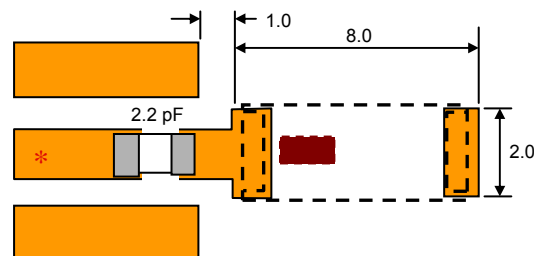
* Line width should be designed to provide 50Ω impedance matching characteristics.

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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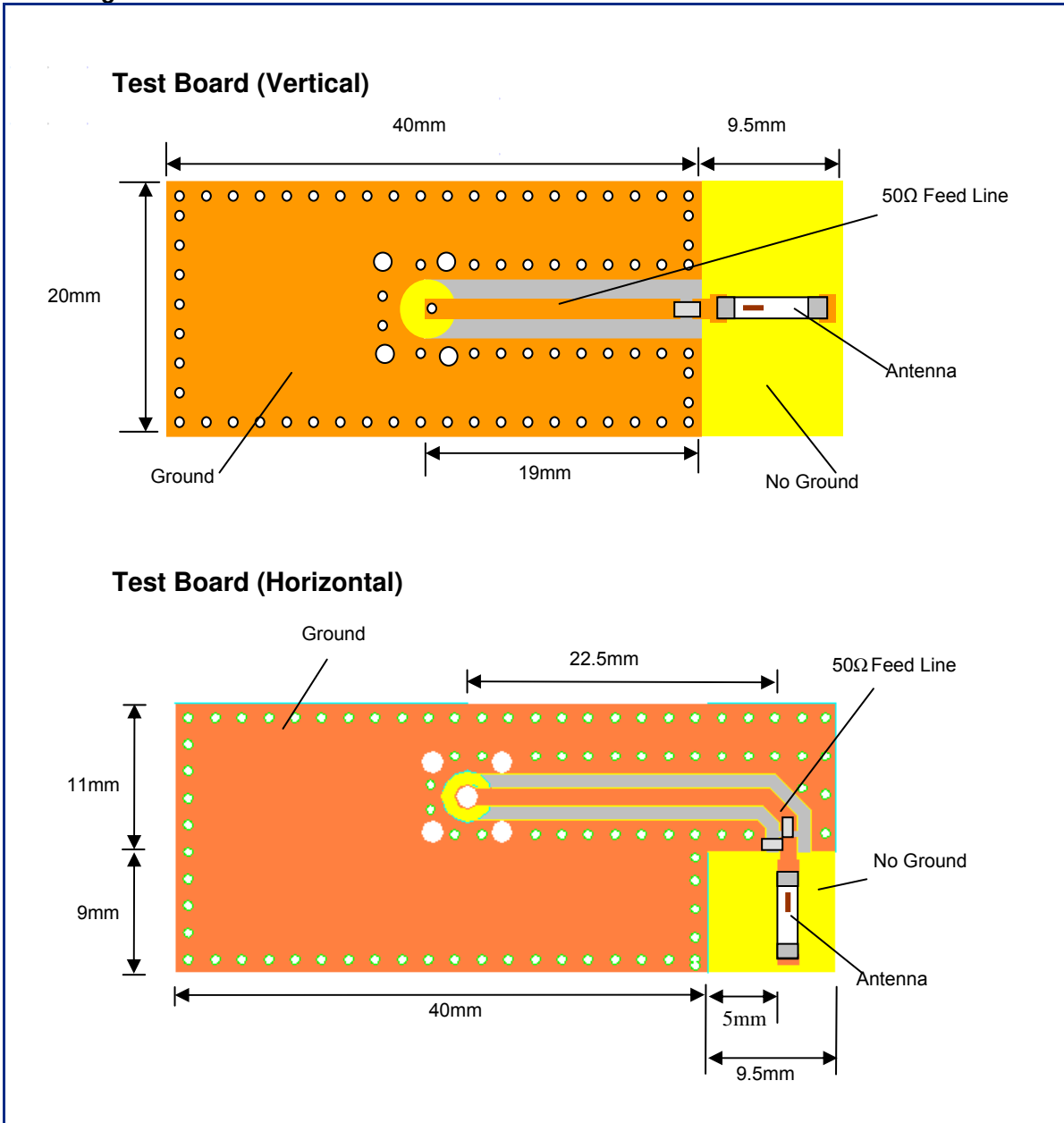
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Mounting Considerations



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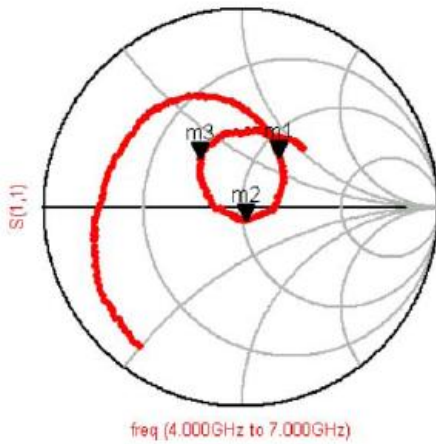
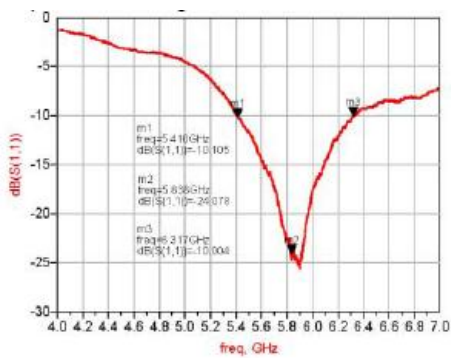
P/N 5775AT43A100

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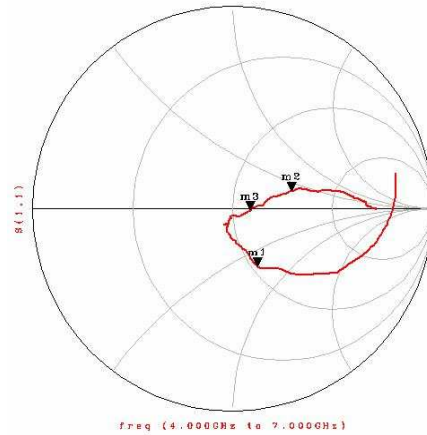
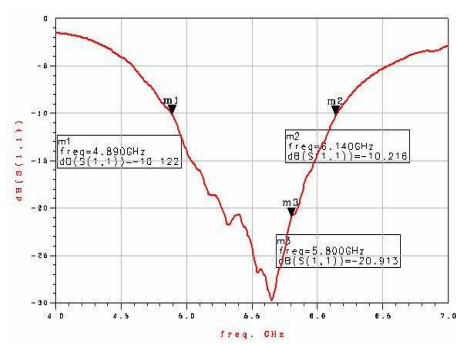
Typical Electrical Characteristics (T=25°C)

Return Loss

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



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



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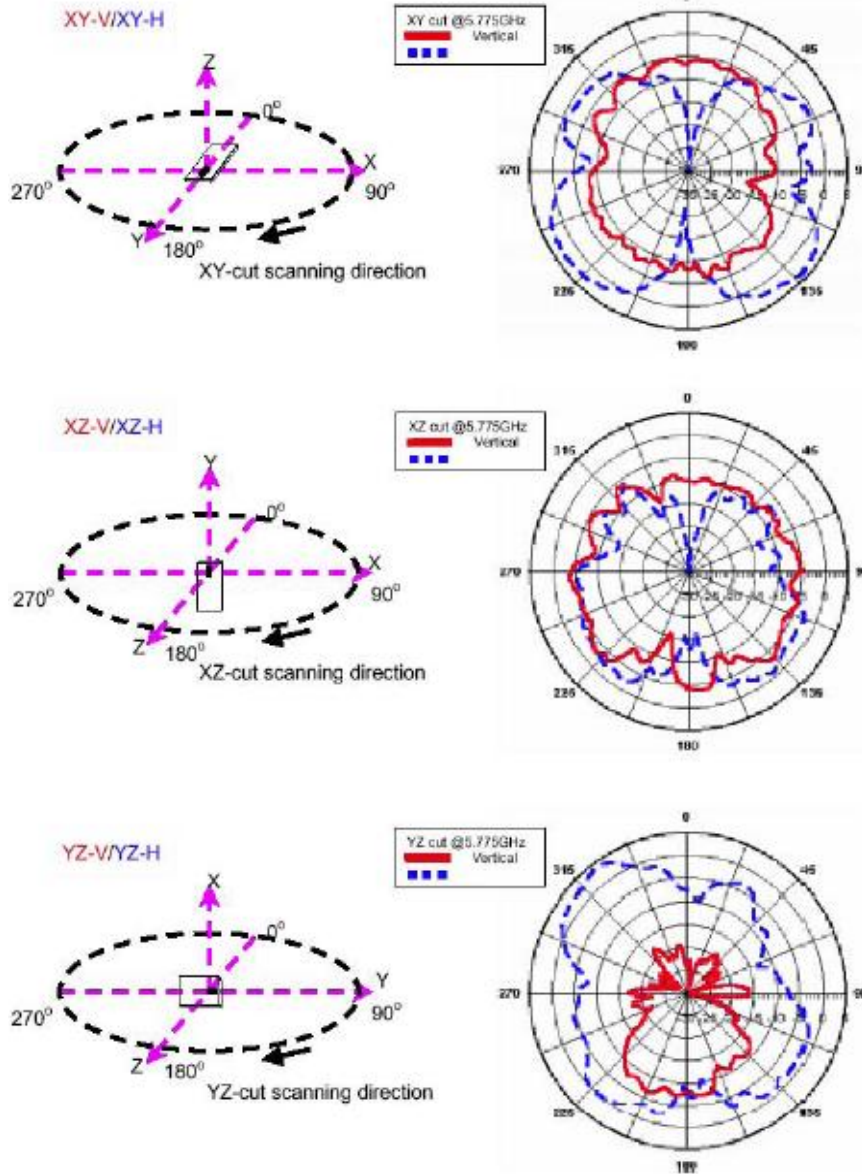
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Typical Radiation Patterns (Vertical Test Board)



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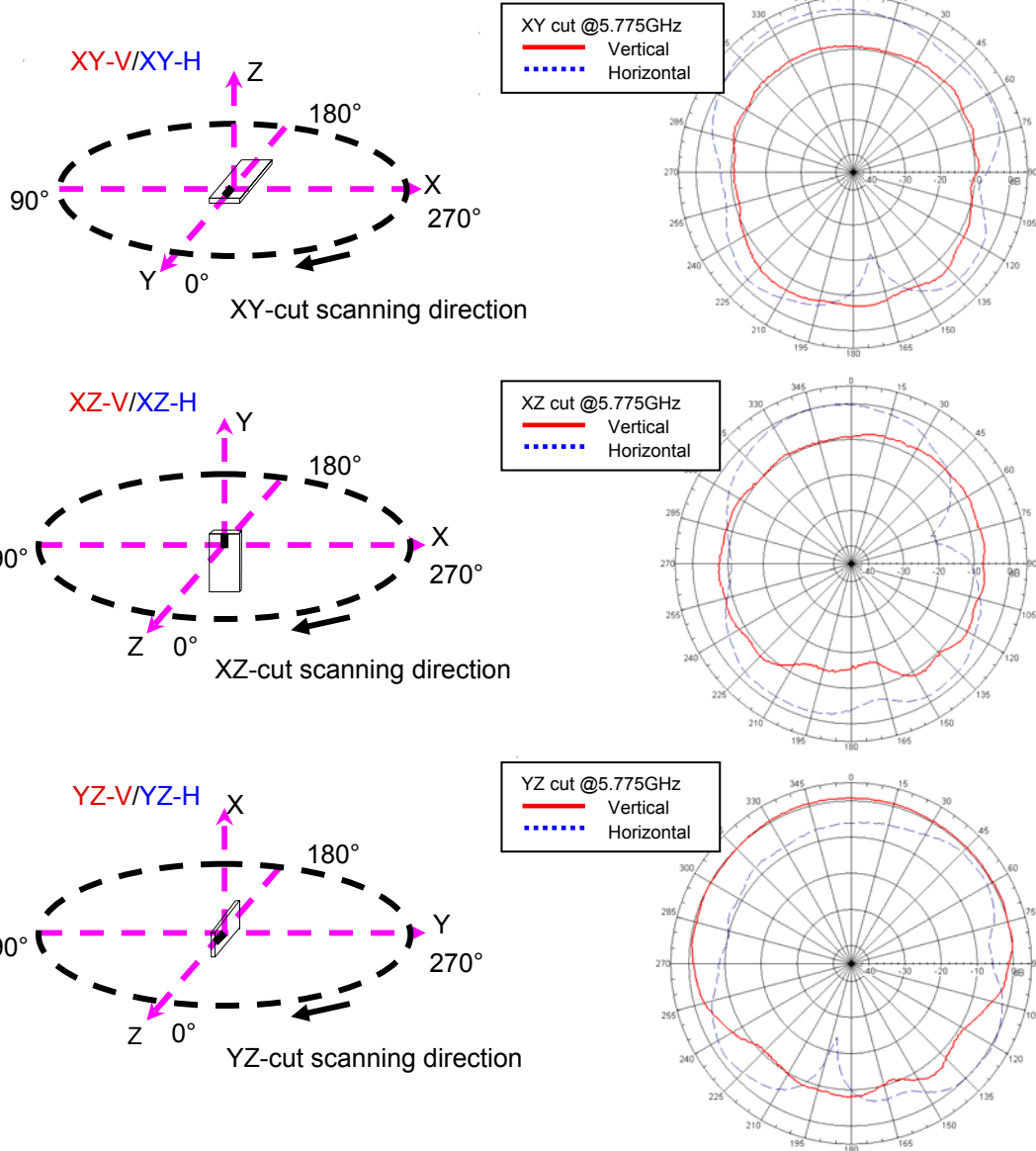
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Typical Radiation Patterns (Horizontal Test Board)



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