

“High Frequency Ceramic Solutions”

2.45 GHz Chip Antenna

P/N 2450AT45A100

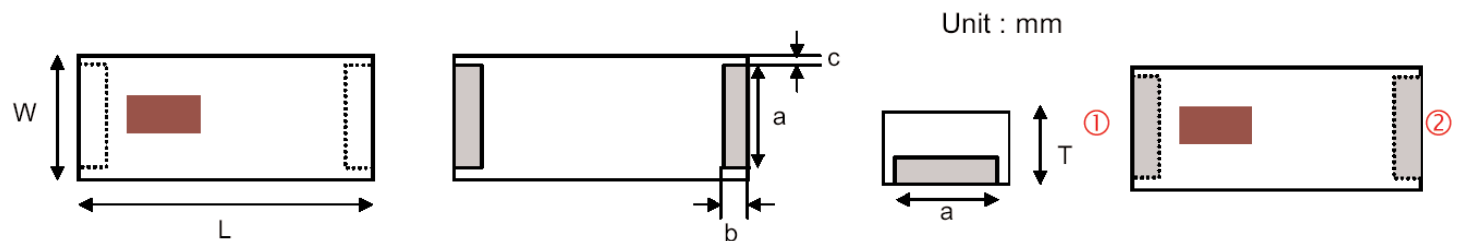
Detail Specification Page 1 of 3

Part Number	Frequency (MHz)	Peak Gain (XZ-V)	Ave. Gain (XZ-V)	Return Loss
2450AT45A100_	2400 - 2500	3.0 dBi typ.	1.0 dBi typ.	9.5 dB min.

Input Power	Impedance	Operating Temperature Range	Reel Qty
3 Watts max	50 Ω	-40 to +85°C	1000

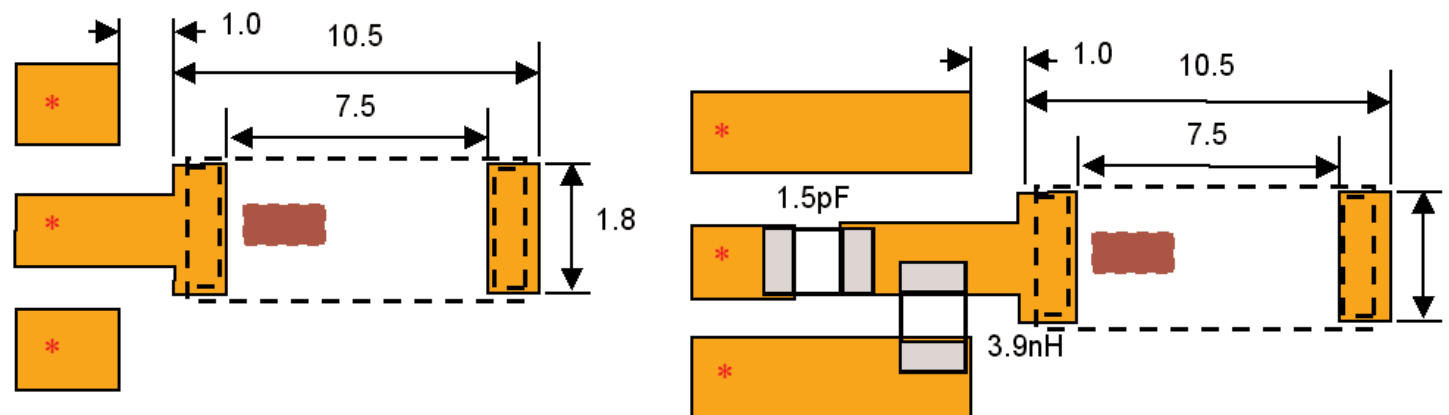
Mechanical Dimensions

	L	W	T	a	b	c	Terminal Configuration
Inches	0.374 ± .008	0.079 ± .008	0.047 + .004/ - .008	0.053 ± .008	0.043 ± .004	0.010 ± .004	1 INPUT
mm	9.5 ± 0.2	2.0 ± 0.2	1.2 + 0.1/ - 0.2	1.35 ± 0.2	1.1 ± 0.1	0.25 ± 0.1	2 NC



Mounting Considerations

Mount these devices with brown colored side facing up. Line width should be designed to provide 50Ω impedance matching characteristics.



a) Without Matching Circuit (moderate bandwidth)

b) With Matching Circuit* (wide bandwidth)

*Matching circuit and component values will depend on PCB layout.

Johanson Technology, Inc. reserves the right to make design changes without notice.
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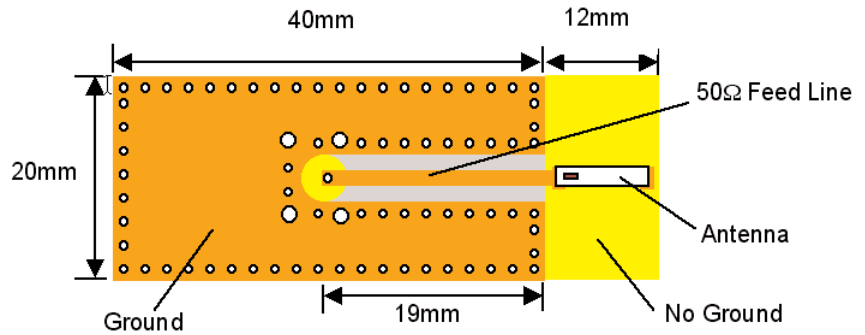
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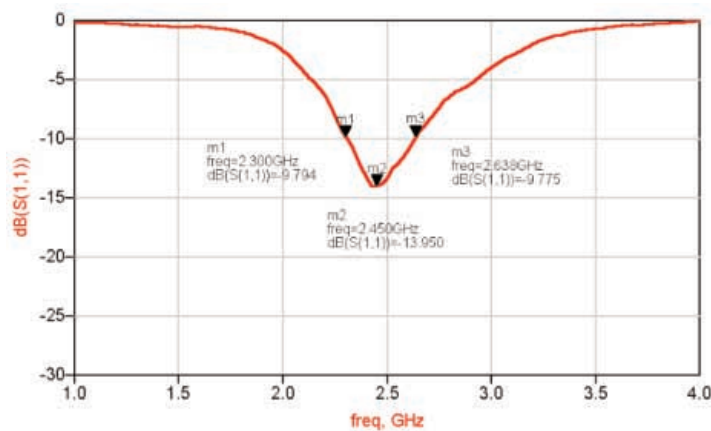
Detail Specification Page 2 of 3

Test Board for Electrical Characteristic Measurements

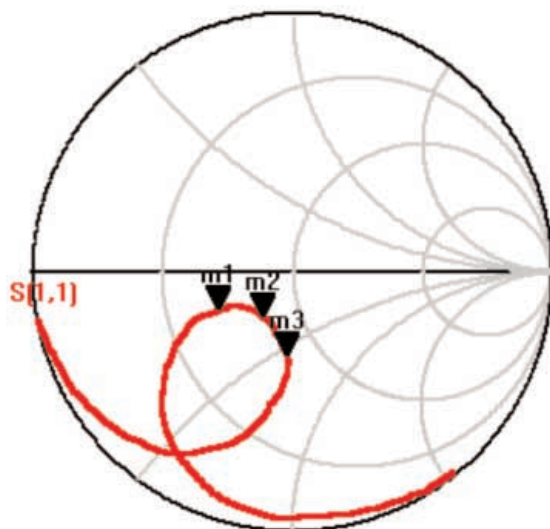
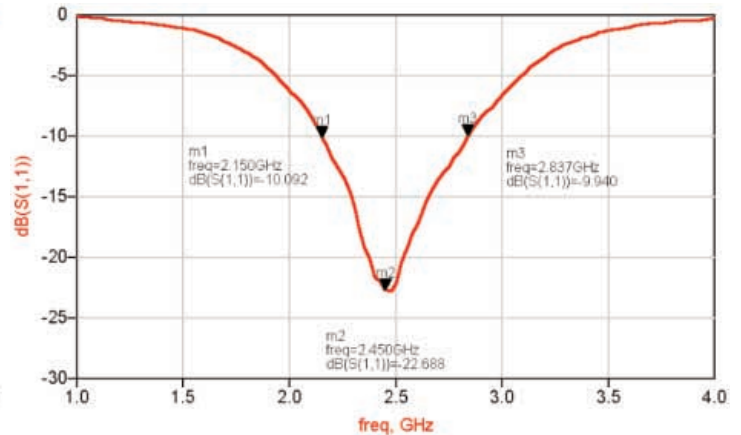


Typical Return Loss for P/N 2450AT45A100

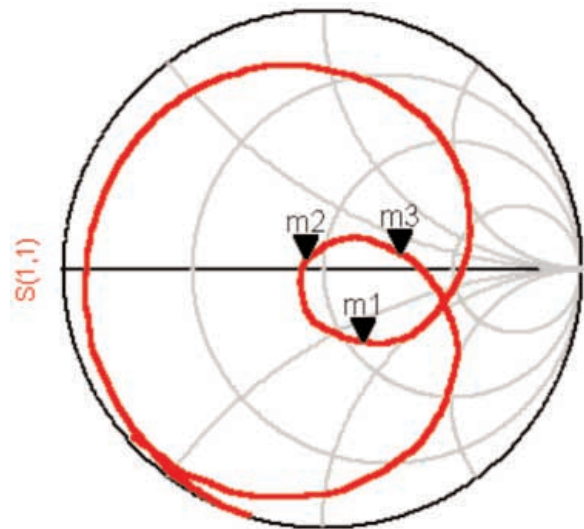
a) Without Matching Circuit



b) With Matching Circuit



freq [1.000GHz to 4.000GHz]



freq [1.000GHz to 4.000GHz]

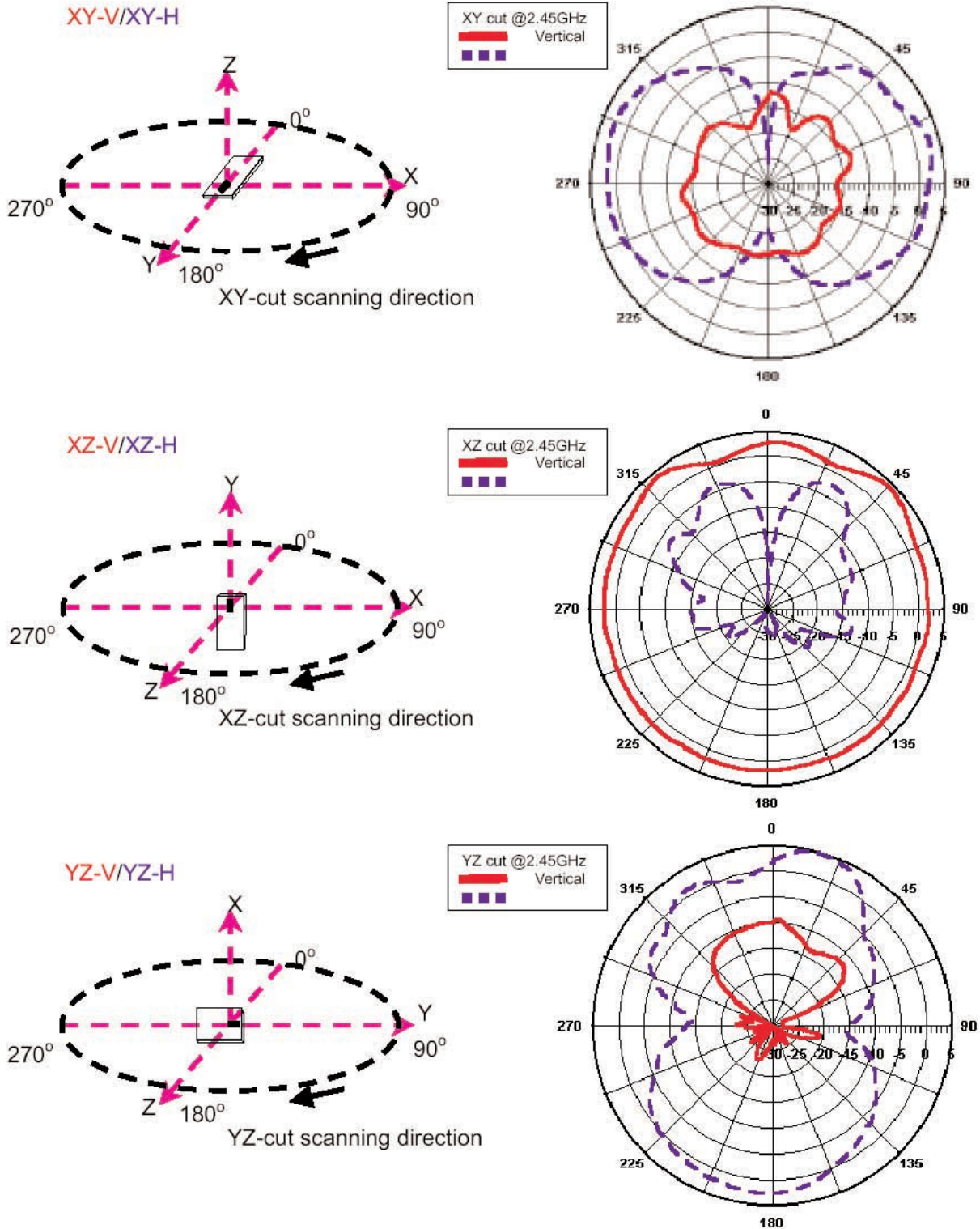
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P/N 2450AT45A100

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Typical Radiation Patterns for P/N 2450AT45A100



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2.45 GHz Chip Antenna

P/N 2450AT44A100

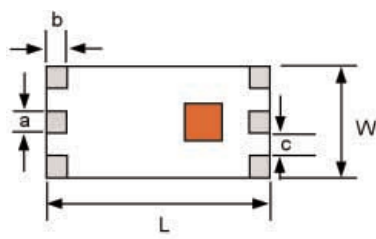
Detail Specification Page 1 of 3

Part Number	Frequency (MHz)	Peak Gain (XZ-V)	Ave. Gain (XZ-V)	Return Loss
2450AT44A100_	2400 - 2500	1.3 dBi typ.	0 dBi typ.	9.5 dB min.

Input Power	Impedance	Operating Temperature Range	Reel Qty
3 Watts max	50 Ω	-40 to +85°C	1000

Mechanical Dimensions

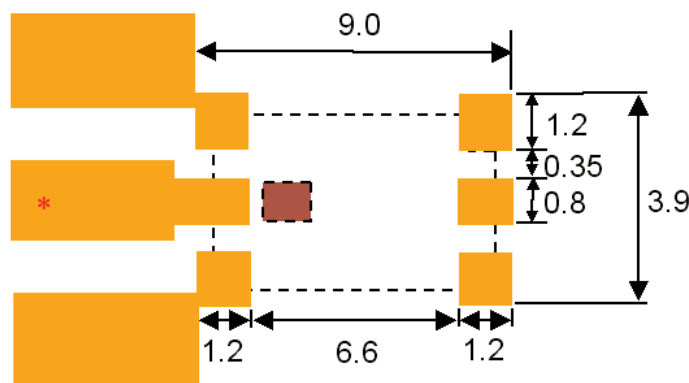
	L	W	T	a	b	c
Inches	0.299 ± .012	0.138 ± .008	0.051 ± .004	0.028 ± .008	0.020 ± .012	0.028 ± .008
mm	7.6 ± 0.3	3.5 ± 0.2	1.3 ± 0.1	0.7 ± 0.2	0.5 ± 0.3	0.7 ± 0.2



No.	Terminal Name	No.	Terminal Name
①	GND	④	NC
②	Feed Point	⑤	NC
③	GND	⑥	NC

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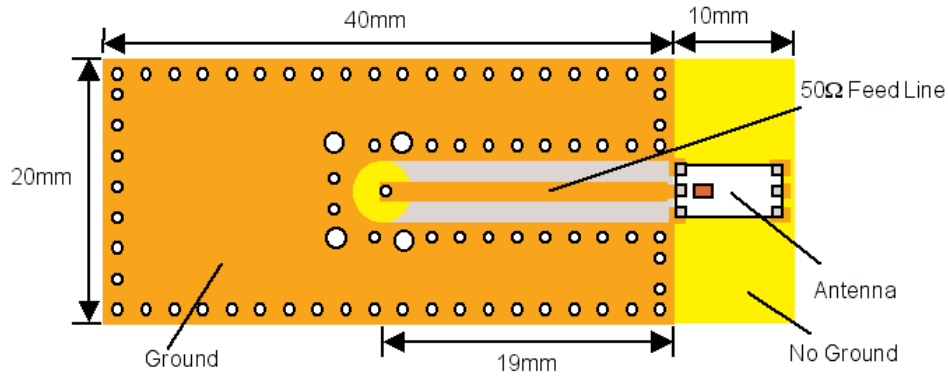
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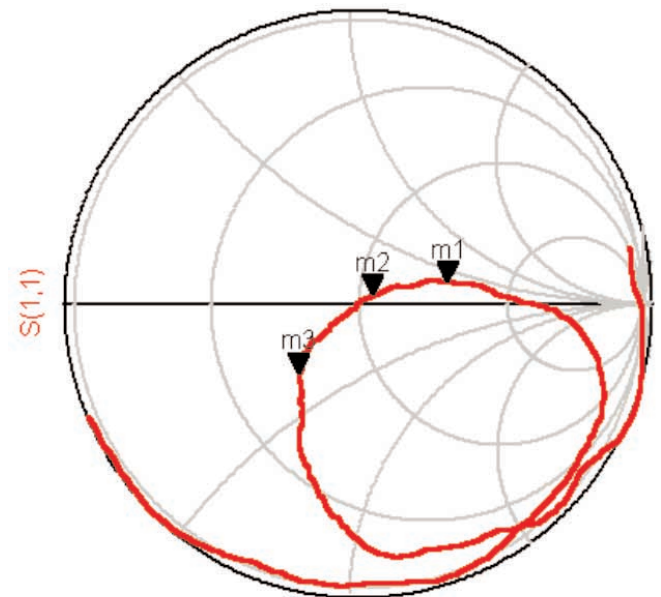
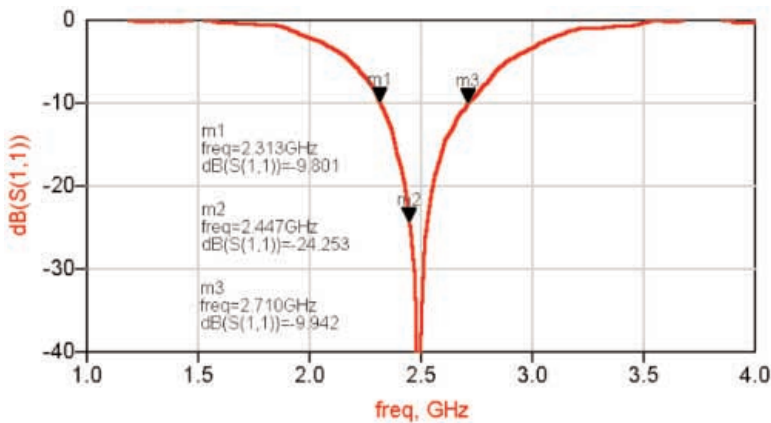
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Test Board for Electrical Characteristic Measurements



Typical Return Loss for P/N 2450AT44A100



freq (1.000GHz to 4.000GHz)

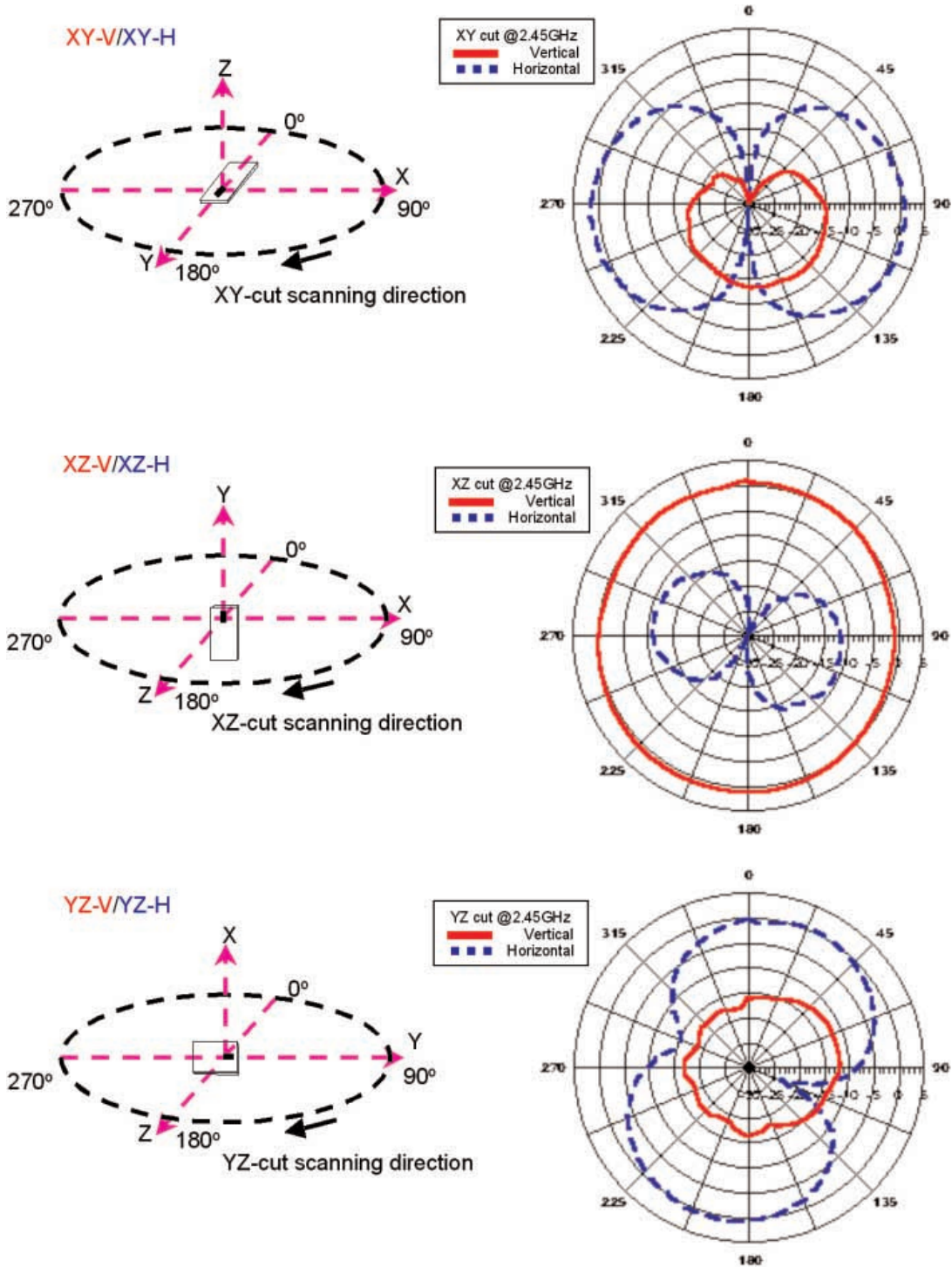
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P/N 2450AT44A100

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Typical Radiation Patterns for P/N 2450AT44A100



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2.45 GHz Chip Antenna

P/N 2450AT45A100

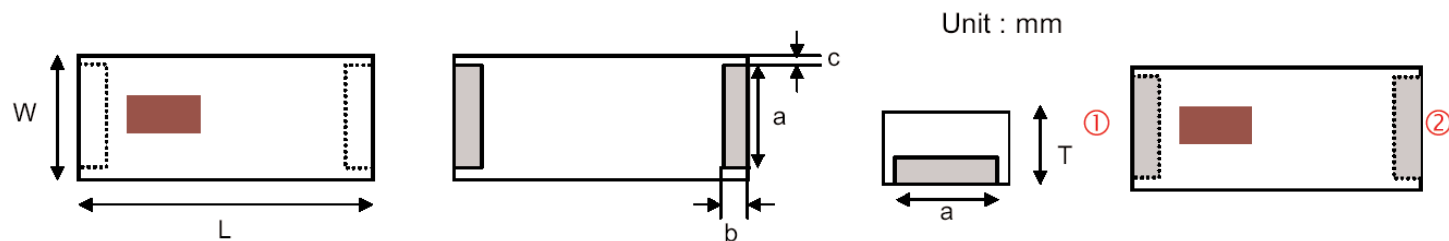
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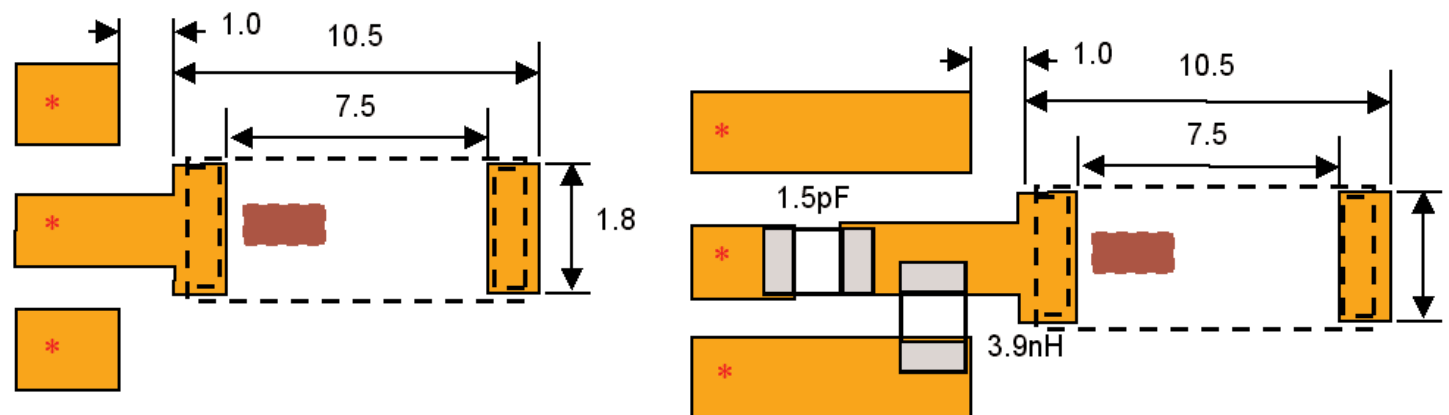
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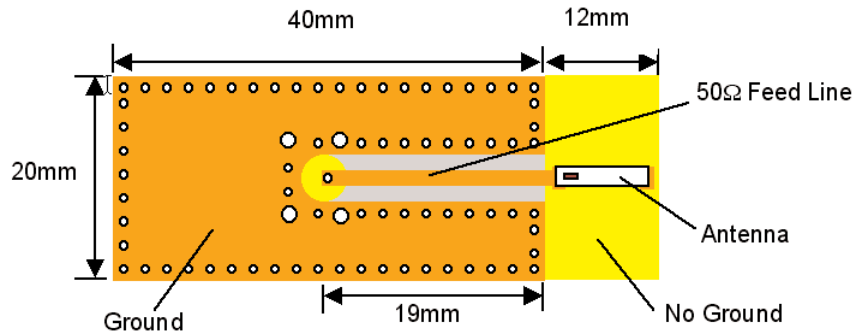
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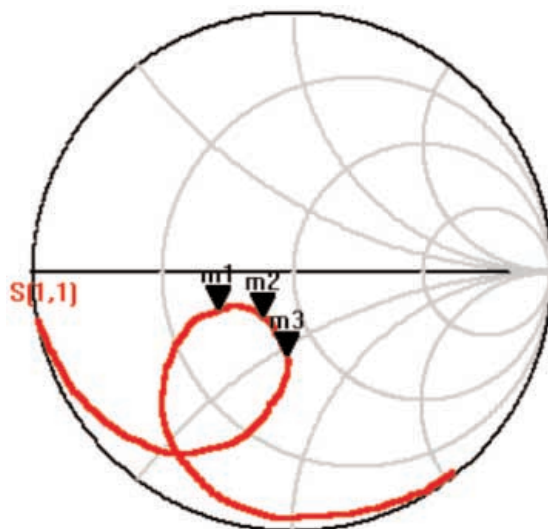
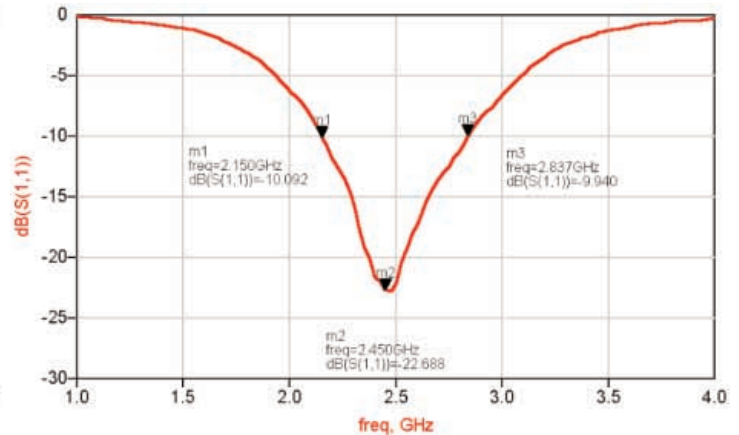
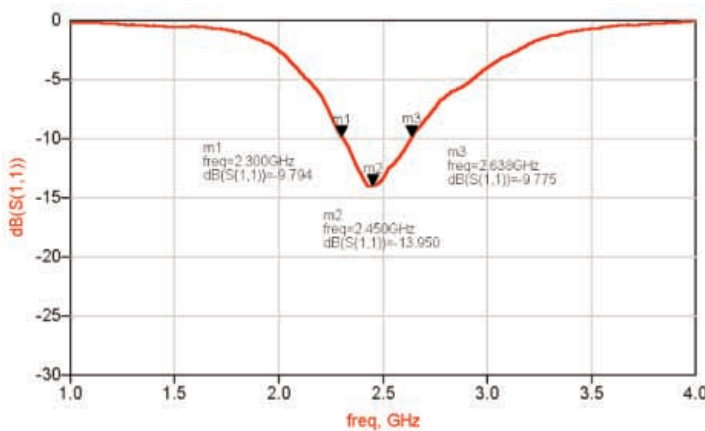
Test Board for Electrical Characteristic Measurements



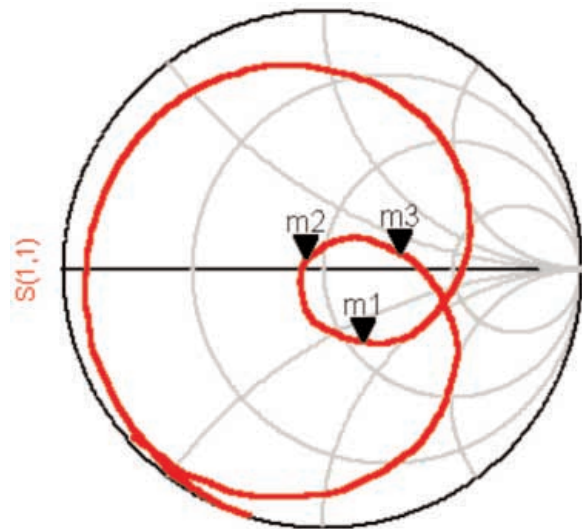
Typical Return Loss for P/N 2450AT45A100

a) Without Matching Circuit

b) With Matching Circuit



freq [1.000GHz to 4.000GHz]



freq [1.000GHz to 4.000GHz]

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