2.45 GHz Chip Antenna

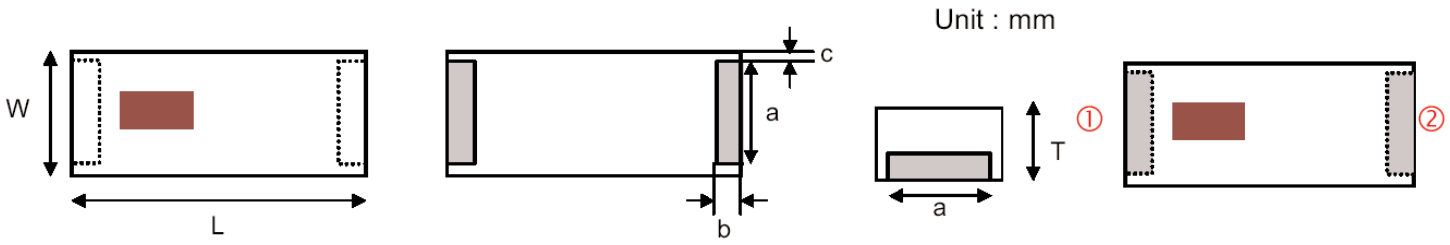
P/N 2450AT45A100

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

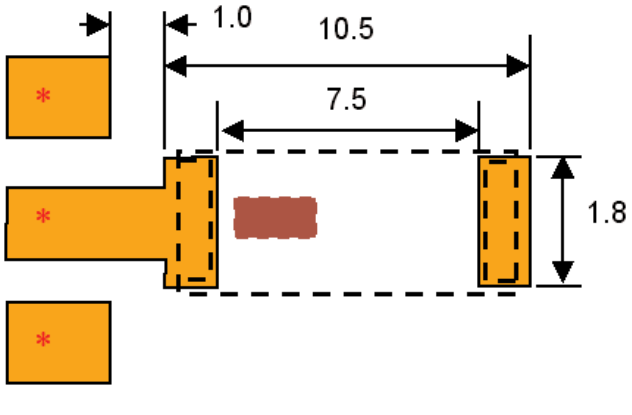
Mechanical Dimensions

	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

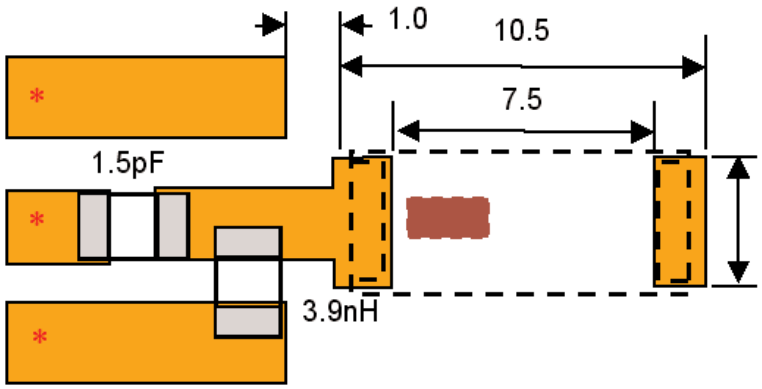


Mounting Considerations

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.

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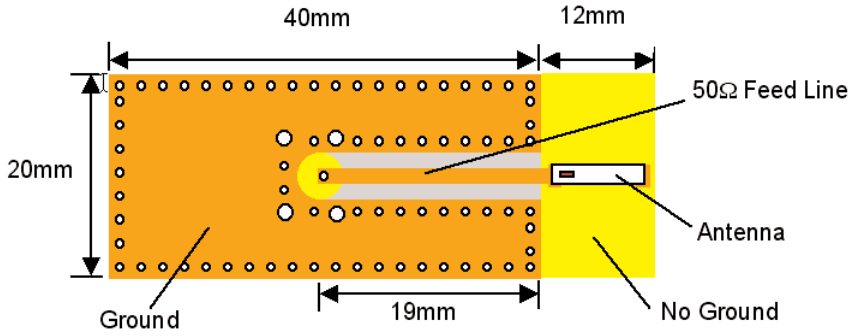
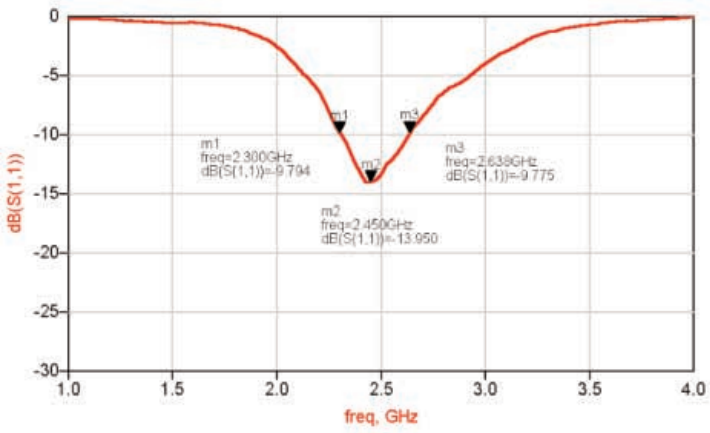
Test Board for Electrical Characteristic Measurements

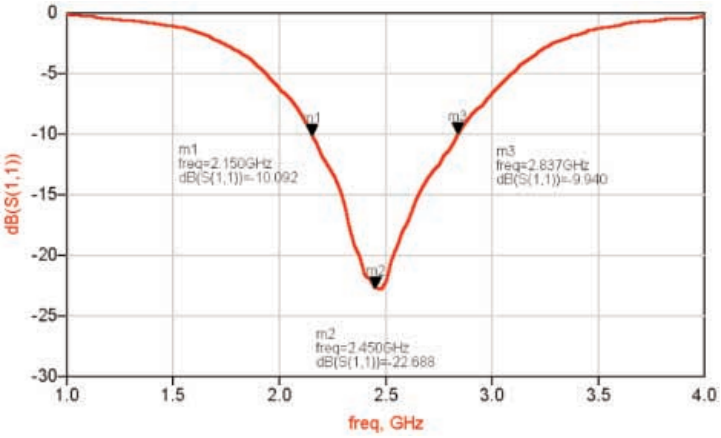


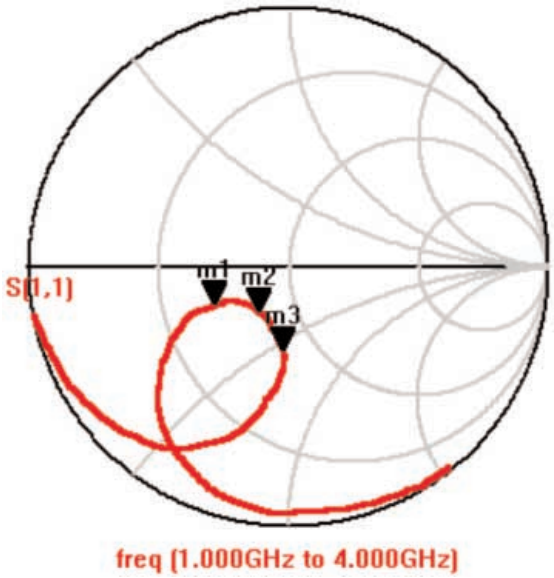
Typical Return Loss for P/N 2450AT45A100

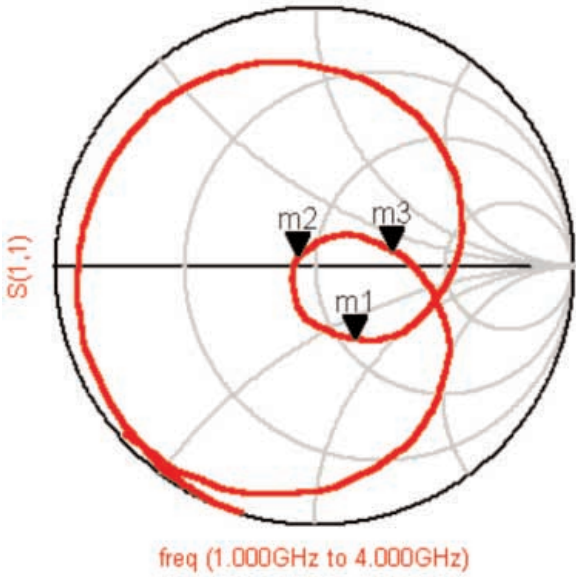
a) Without Matching Circuit



b) With Matching Circuit







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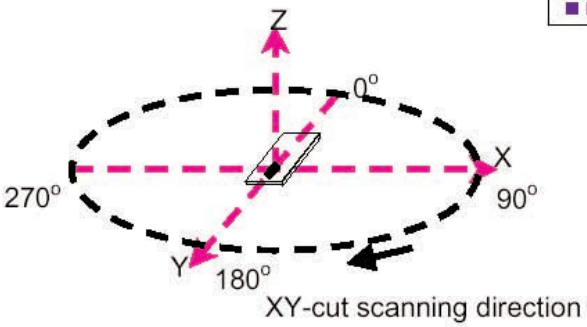
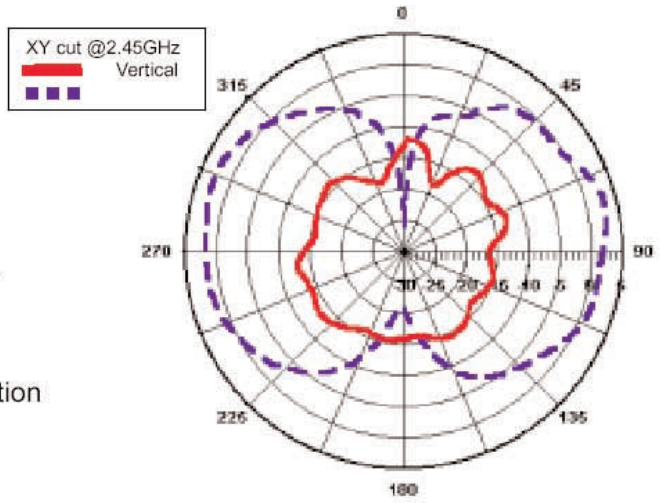
Typical Radiation Patterns for P/N 2450AT45A100

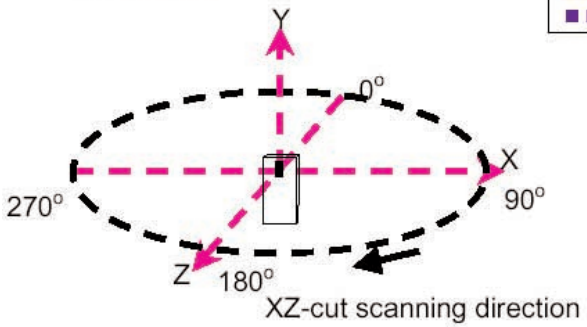
XY-V/XY-H



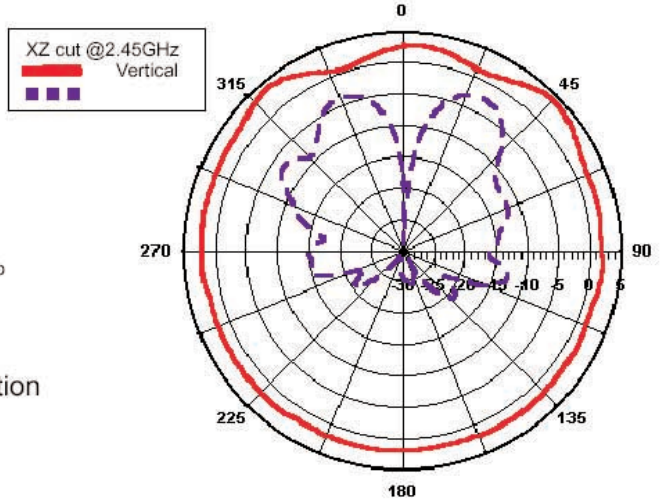
XY-cut scanning direction



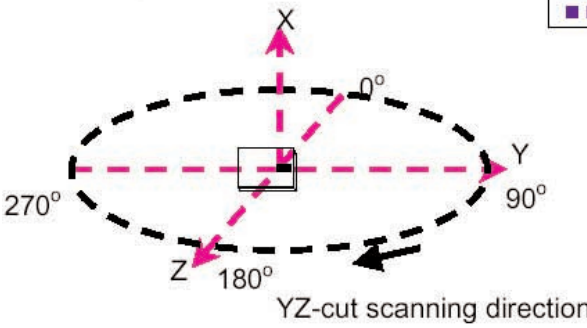
XZ-V/XZ-H



XZ-cut scanning direction



YZ-V/YZ-H



YZ-cut scanning direction