

# "High Frequency Ceramic Solutions"

## 2.45 GHz Chip Antenna

P/N 2450AT45A100

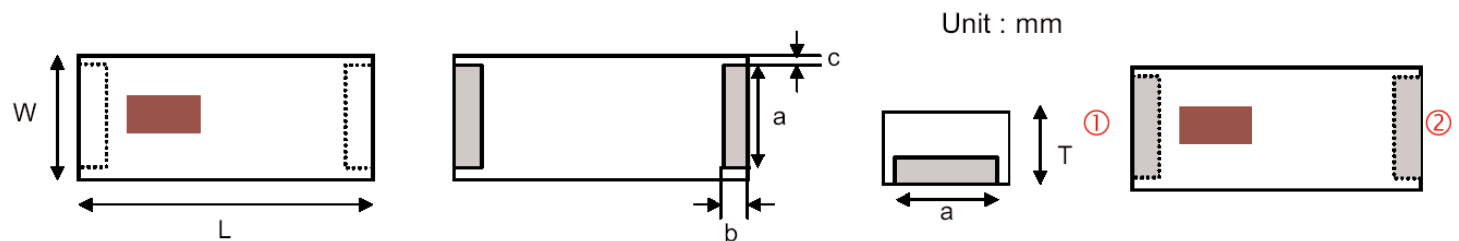
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Part Number	Frequency (MHz)	Peak Gain (XZ-V)	Ave. Gain (XZ-V)	Return Loss
2450AT45A100_	2400 - 2500	3.0 dBi typ.	1.0 dBi typ.	9.5 dB min.

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

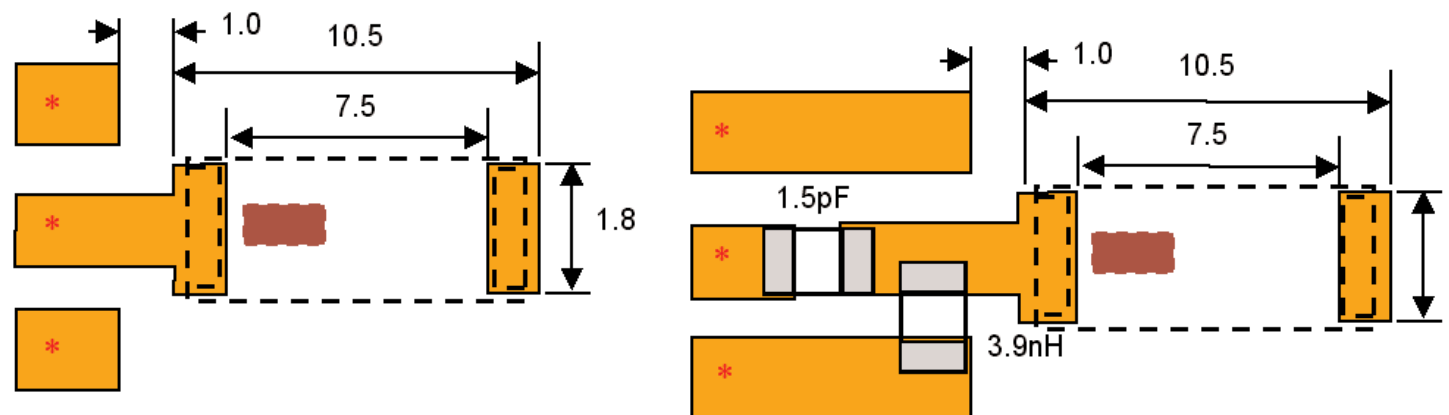
### Mechanical Dimensions

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



### Mounting Considerations

Mount these devices with brown colored side facing up. Line width should be designed to provide 50 $\Omega$  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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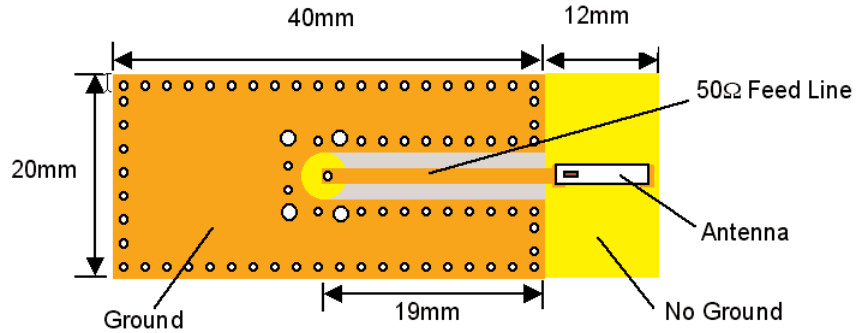
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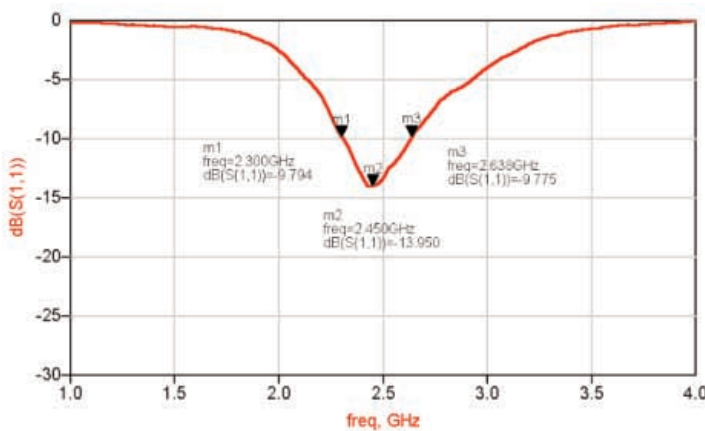
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Test Board for Electrical Characteristic Measurements

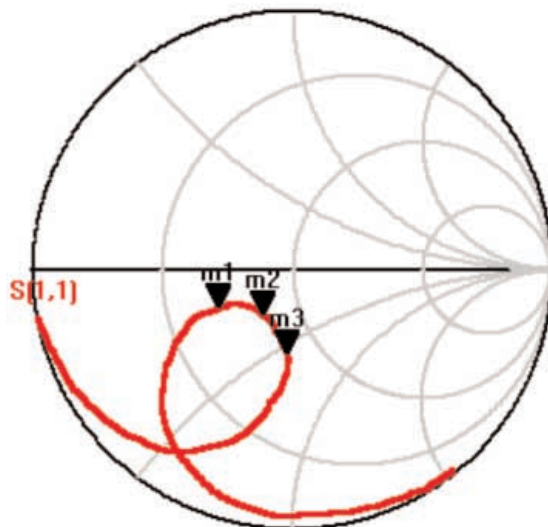
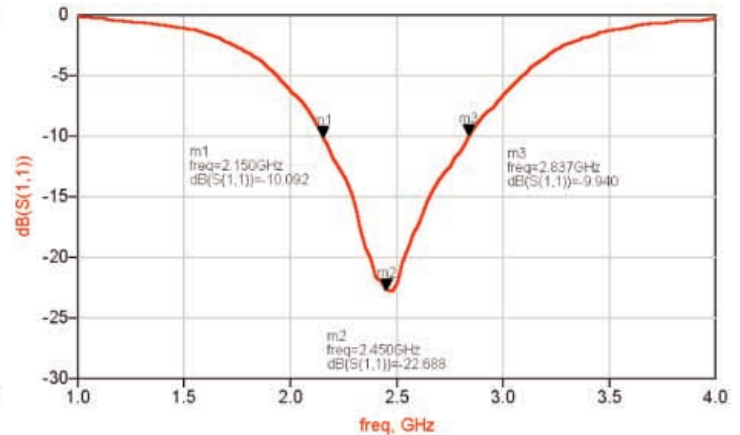


Typical Return Loss for P/N 2450AT45A100

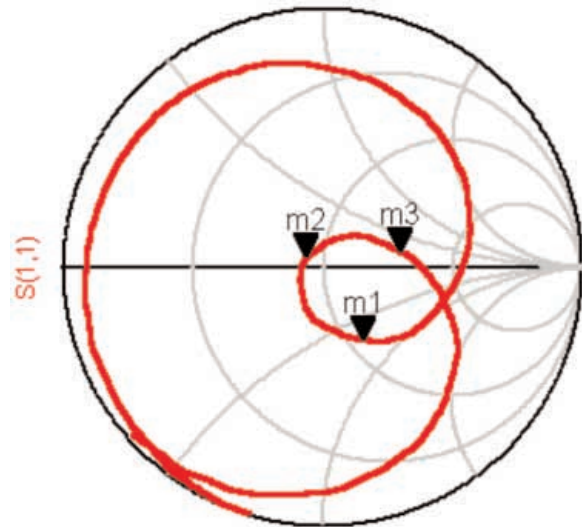
a) Without Matching Circuit



b) With Matching Circuit



freq [1.000GHz to 4.000GHz]



freq [1.000GHz to 4.000GHz]

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Typical Radiation Patterns for P/N 2450AT45A100

