

1. GENERAL DESCRIPTION

This document describes a 2.45GHz Ceramic Chip Antenna. Its electrical and mechanical requirements are per the attached manufacturer's specification.

2. GENERAL REQUIREMENTS**2.1 Packaging**

Surface Mount Tape and Reel, per EIA-481.
Tape shall be made of anti-static plastic.

“High Frequency Ceramic Solutions”

2.45 GHz Chip Antenna

P/N 2450AT45A100

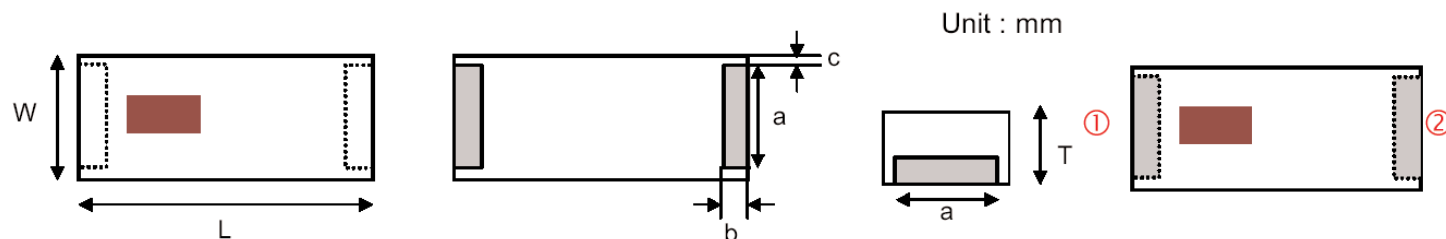
Detail Specification Page 1 of 3

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

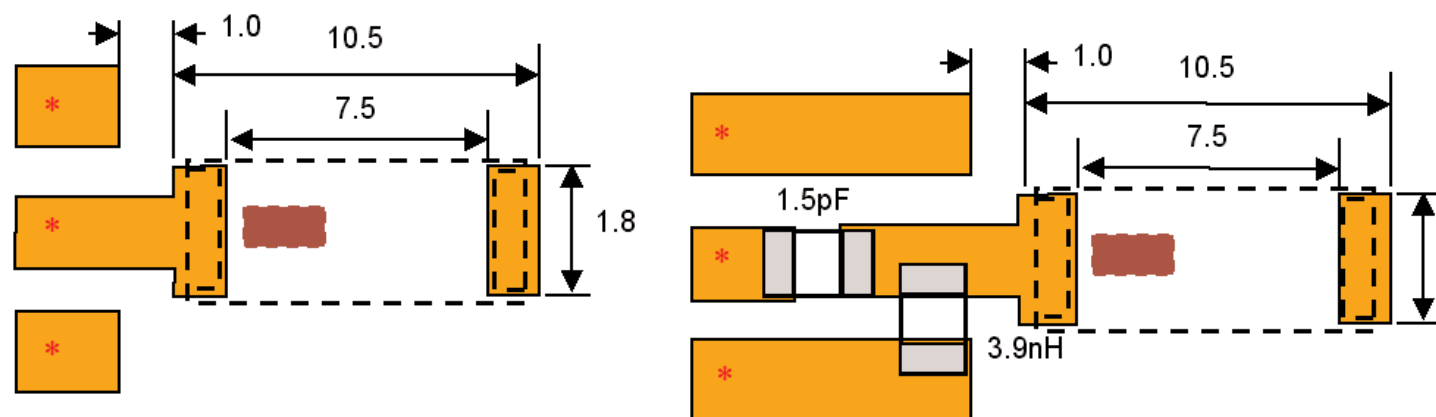
Mechanical Dimensions

	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.

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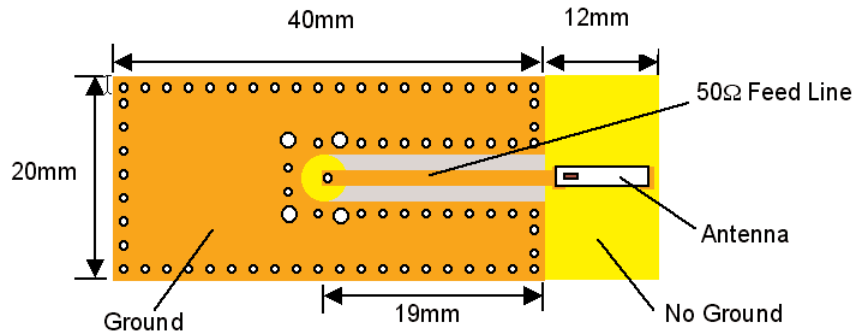
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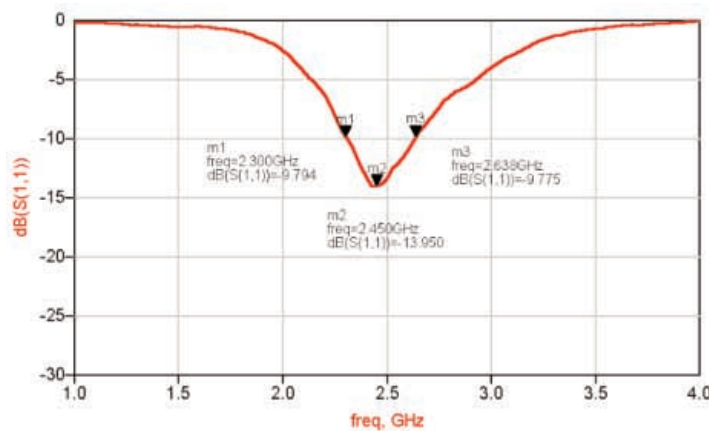
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Test Board for Electrical Characteristic Measurements

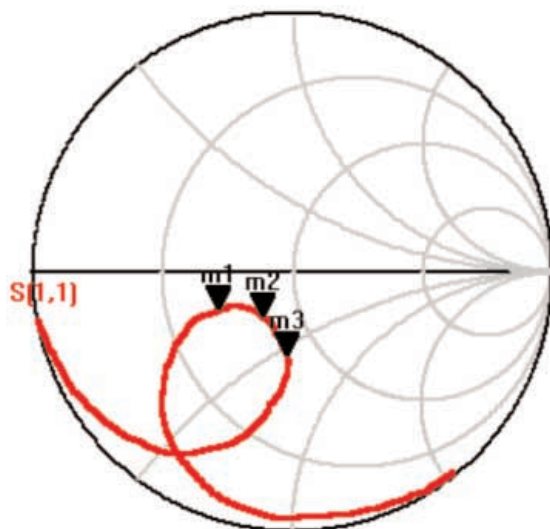
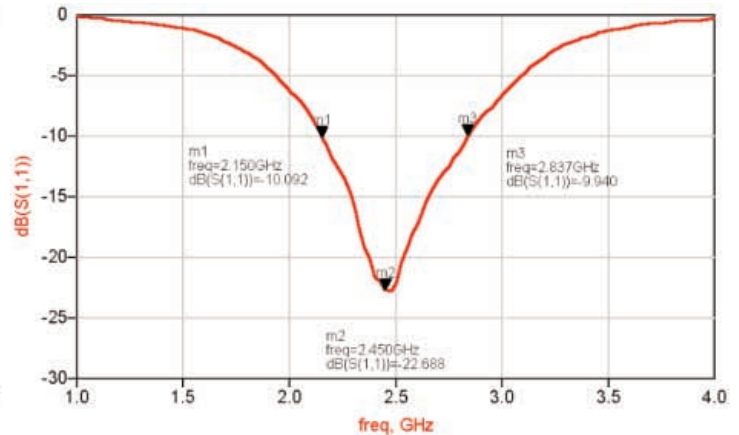


Typical Return Loss for P/N 2450AT45A100

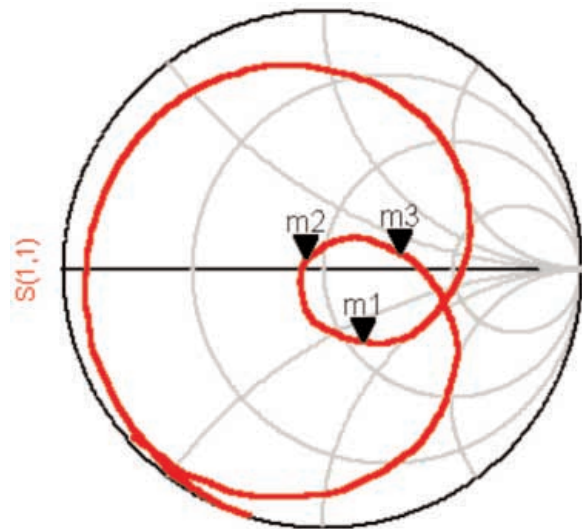
a) Without Matching Circuit



b) With Matching Circuit



freq [1.000GHz to 4.000GHz]



freq [1.000GHz to 4.000GHz]

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P/N 2450AT45A100

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Typical Radiation Patterns for P/N 2450AT45A100

