

"High Frequency Ceramic Solutions"

1.57 GHz Chip Antenna

P/N 1575AT47A40

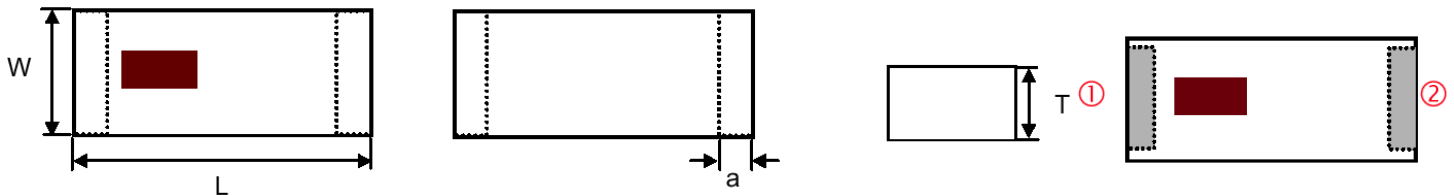
Detail Specification Page 1 of 3

Part Number	Frequency (MHz)	Peak Gain (XZ-V)	Ave. Gain (XZ-V)	Return Loss
1575AT47A40_	1555 - 1595	-1.0 dBi typ.	-3.0 dBi typ.	9.5 dB min.

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

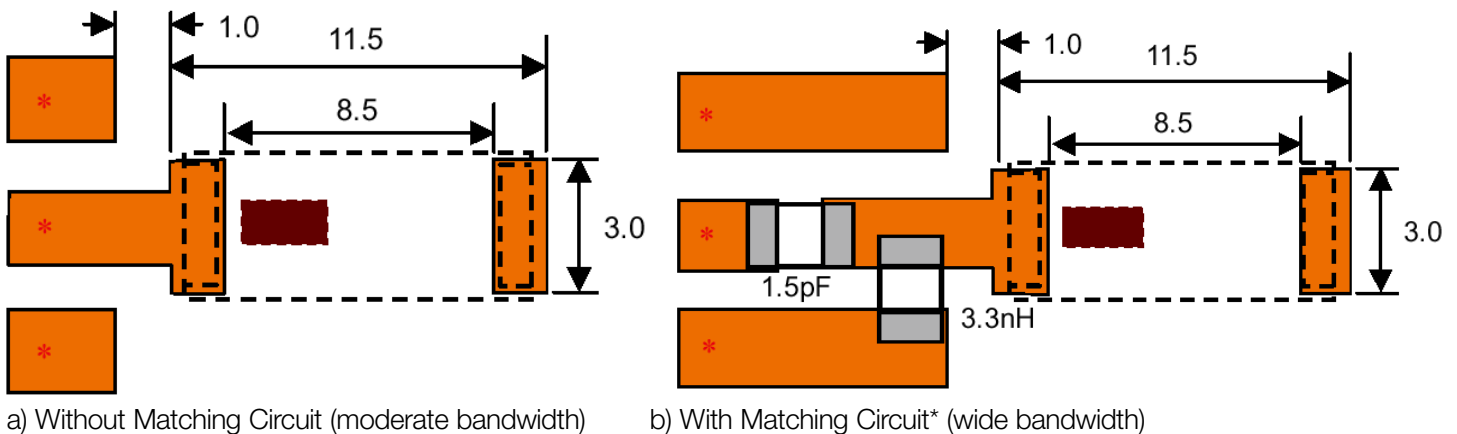
Mechanical Dimensions

	L	W	T	a	Terminal Configuration	
Inches	0.394 $\pm$.008	0.118 $\pm$.008	0.030 $\pm$.008	0.029 $\pm$.008	1	INPUT
mm	10.0 $\pm$ 0.2	3.0 $\pm$ 0.2	0.77 $\pm$ 0.2	0.75 $\pm$ 0.2	2	NC



Mounting Considerations

Mount these devices with brown colored side facing up. Line width should be designed to provide 50 Ω 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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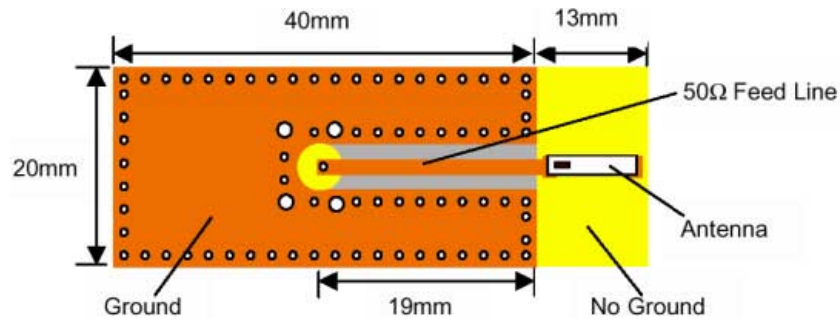
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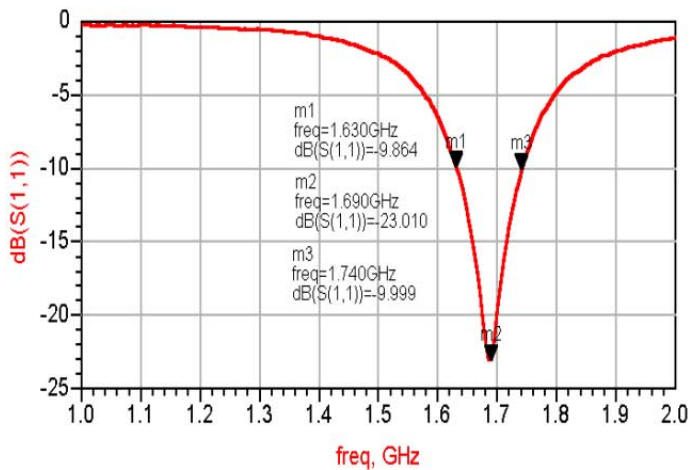
Detail Specification Page 2 of 3

Test Board for Electrical Characteristic Measurements

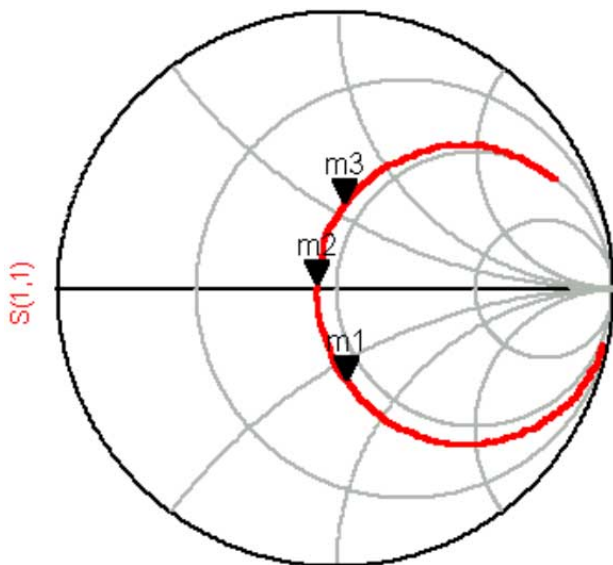
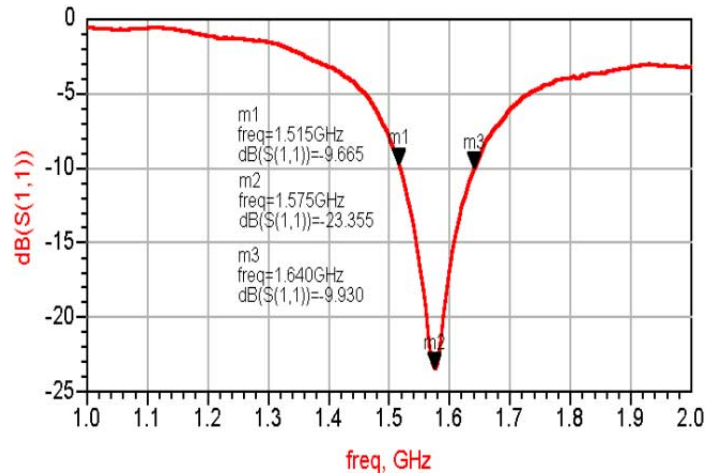


Typical Return Loss for P/N 1575AT47A40

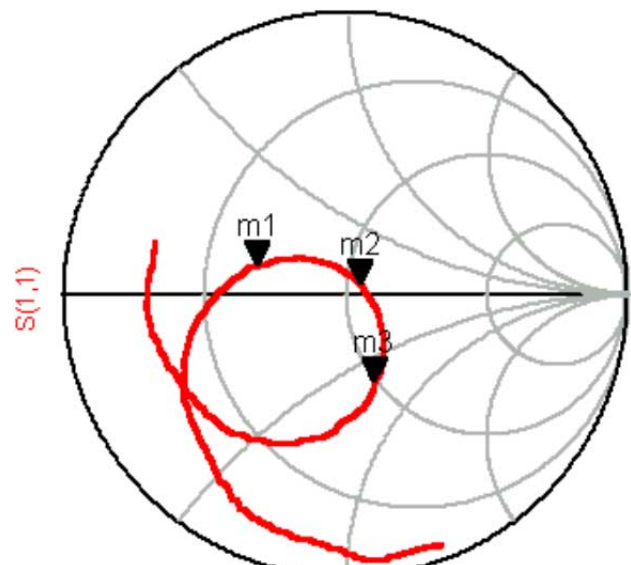
a) Without Matching Circuit



b) With Matching Circuit



freq (1.000GHz to 2.000GHz)



freq (1.000GHz to 2.000GHz)

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Detail Specification Page 3 of 3

Typical Radiation Patterns for P/N 1575AT47A40

