

# High Frequency Ceramic Solutions

## 868MHz Antenna

Detail Specification: 06/06/07

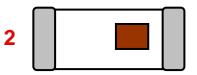
P/N 0868AT43A0020

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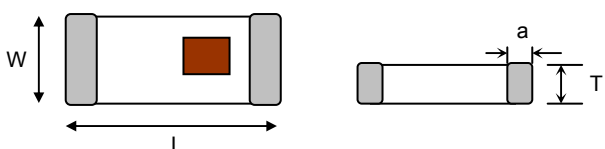
### General Specifications

Part Number	0868AT43A0020
Frequency Range	858 - 878 Mhz
Peak Gain	-1.0 dBi typ. (XZ-total)
Average Gain	-4.0 dBi typ. (XZ-total)
Return Loss	9.5 dB min.

Input Power	3W max.
Impedance	50 $\Omega$
Operating Temperature	-40 to +85°C
Reel Quantity	1,000
MSL	2

No.	Function	Terminal Configuration
1	Feeding Point	
2	NC	

### Mechanical Dimensions

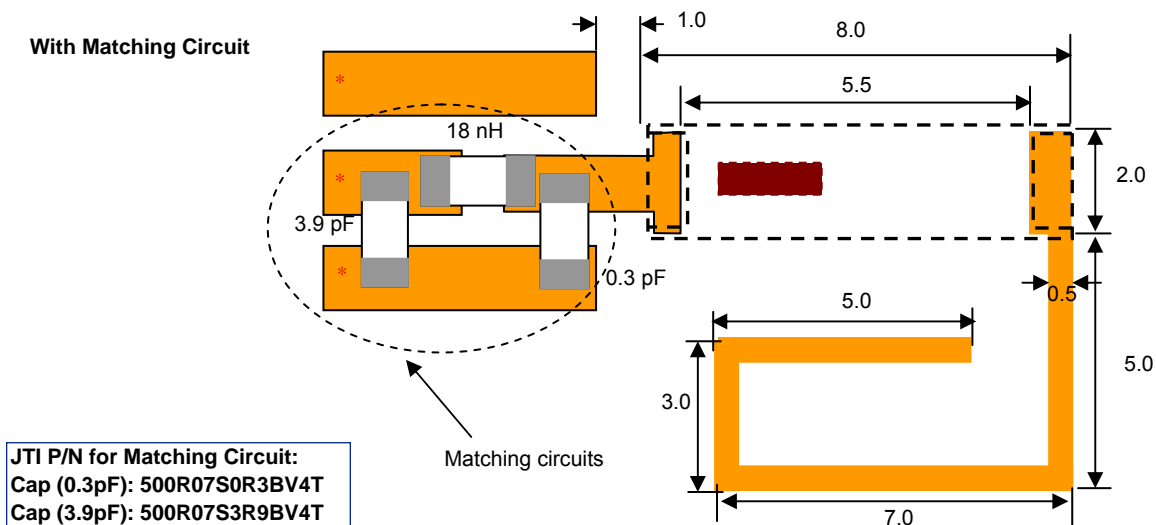
	In	mm	
L	0.276 $\pm$ 0.008	7.00 $\pm$ 0.20	
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20	
T	0.031 $\pm$ 0.004/-0.008	0.80 $\pm$ 0.1/-0.2	
a	0.020 $\pm$ 0.012	0.50 $\pm$ 0.30	

### Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.

#### With Matching Circuit



Johanson Technology, Inc. reserves the right to make design changes without notice.

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[www.johansontechnology.com](http://www.johansontechnology.com)

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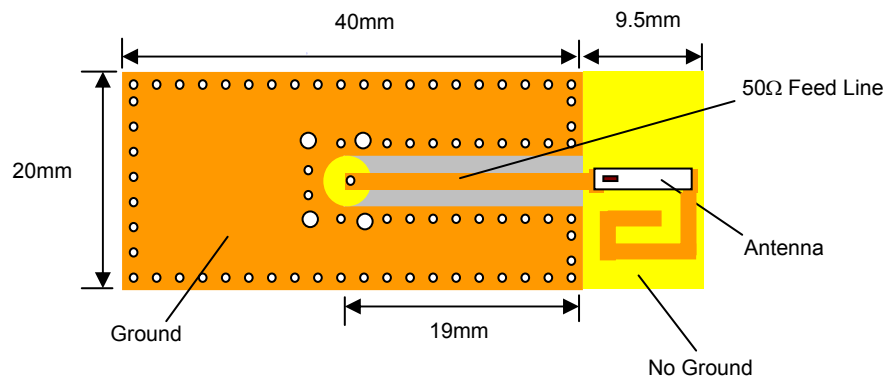
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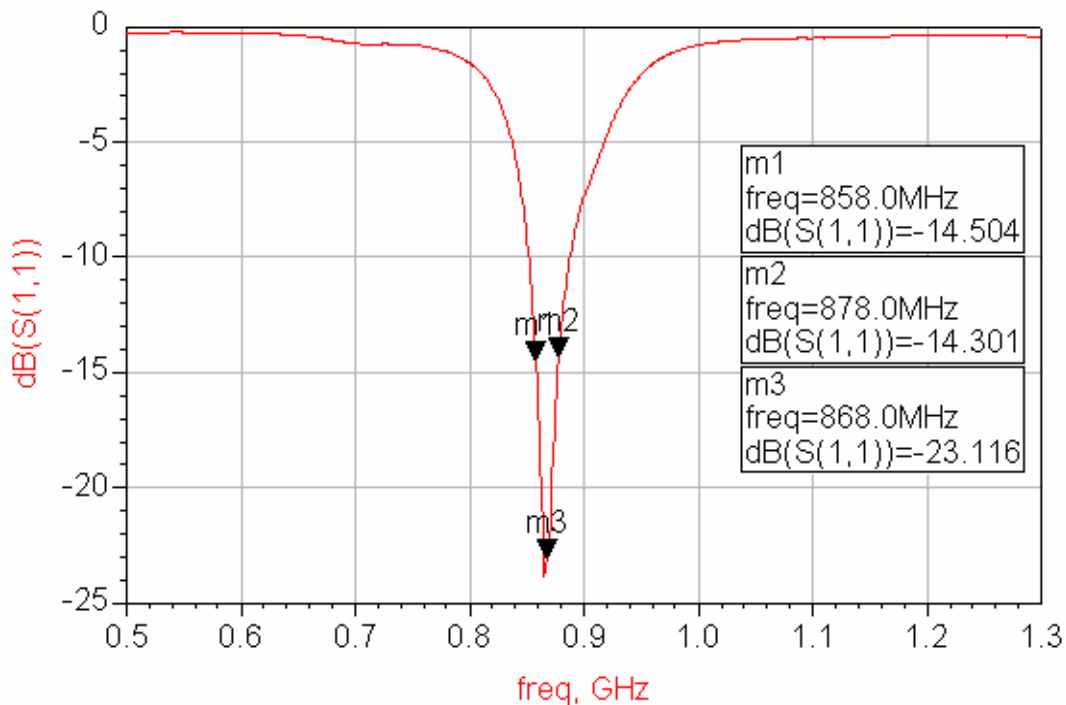
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### Mounting Considerations

#### Test Board



#### Return Loss (with matching)



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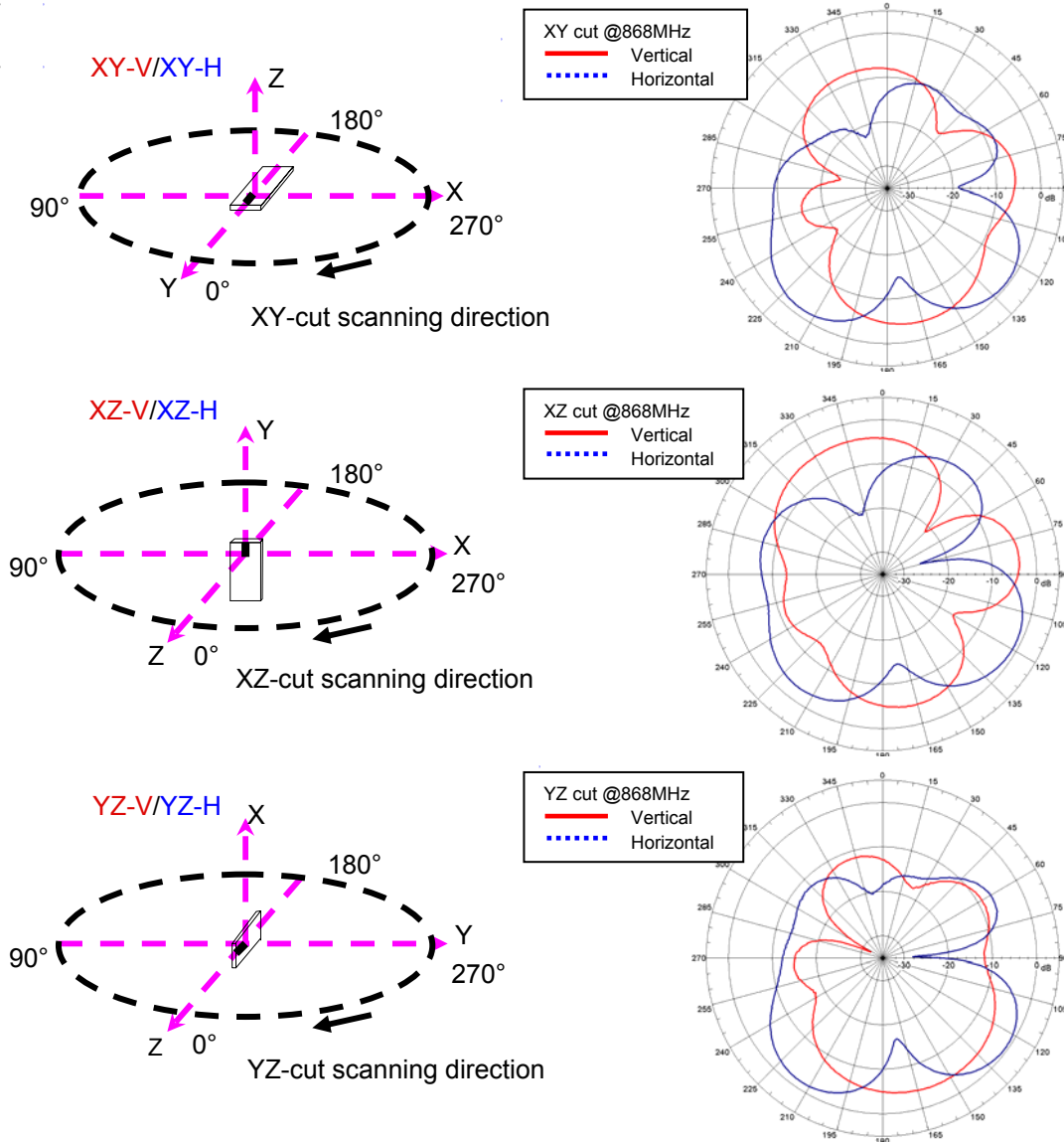
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### Typical Radiation Patterns



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