

# "High Frequency Ceramic Solutions"

## 915 MHz Antenna

Detail Specification: 4/10/2013

P/N 0915AT43A0026

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Recommended Application ISM

### General Specifications

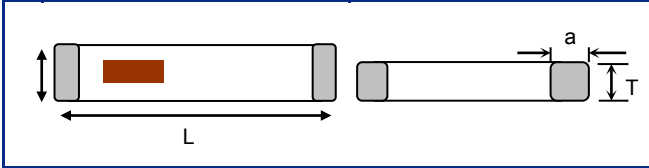
<b>Part Number</b>	0915AT43A0026	<b>Input Power</b>	2W max. (CW)
<b>Frequency (MHz)</b>	902 - 928 Mhz	<b>Operating Temperature</b>	-40 to +85°C
<b>Peak Gain (XZ-total)</b>	-1.0 dBi typ.	<b>Recommended Storage Conditions</b>	+5 to +35°C, Humidity 45~75%RH
<b>Average Gain (XZ-total)</b>	-4.0 dBi typ.	<b>Reel Quantity</b>	1,000
<b>Return Loss</b>	8.5 dB min.		

### Part Number Explanation

<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk (loose)	Suffix = S	eg. 0915AT43A0026S
		T & R	Suffix = E	eg. 0915AT43A0026E
		100% Tin	Suffix = E or S	eg. 0915AT43A0026(E or S)
	<b>Termination style</b>	Tin / Lead	Please Consult Factory	

### Mechanical Dimensions

	In	mm
<b>L</b>	0.276 ± 0.008	7.00 ± 0.20
<b>W</b>	0.079 ± 0.008	2.00 ± 0.20
<b>T</b>	0.031 ± +.004/-0.008	0.80 ± +0.1/-0.2
<b>a</b>	0.020 ± 0.012	0.50 ± 0.30



### Terminal Configuration

No.	Function
<b>1</b>	Feeding Point
<b>2</b>	NC*



\*This terminal must be soldered for anchoring and functionality purposes

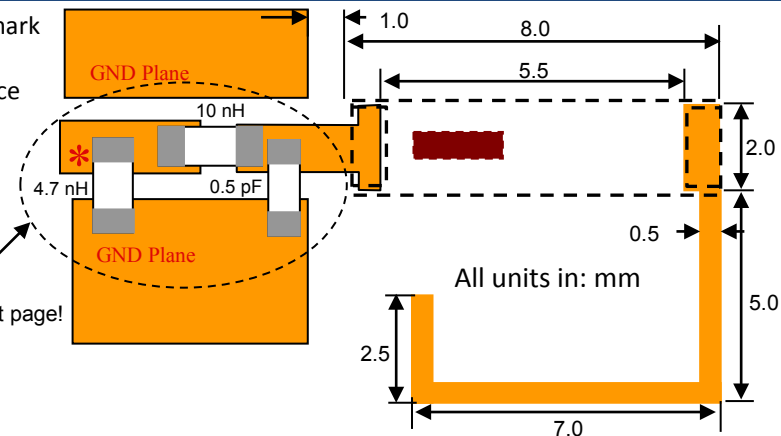
### Mounting Considerations I

Mount these devices with brown mark facing up. \*Line width should be designed to provide 50 Ω impedance matching characteristics.

#### With Matching Circuit

Matching circuit\*\*:  
See Note 2 on next page!

JTI P/N for Matching Circuit:\*\*  
Inductor (4.7nH):L-07C4N7SV6T



\*\*matching circuit and component values will depend on PCB layout, thickness, material, etc.



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Ver 1.4

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# "High Frequency Ceramic Solutions"

**915 MHz Antenna**

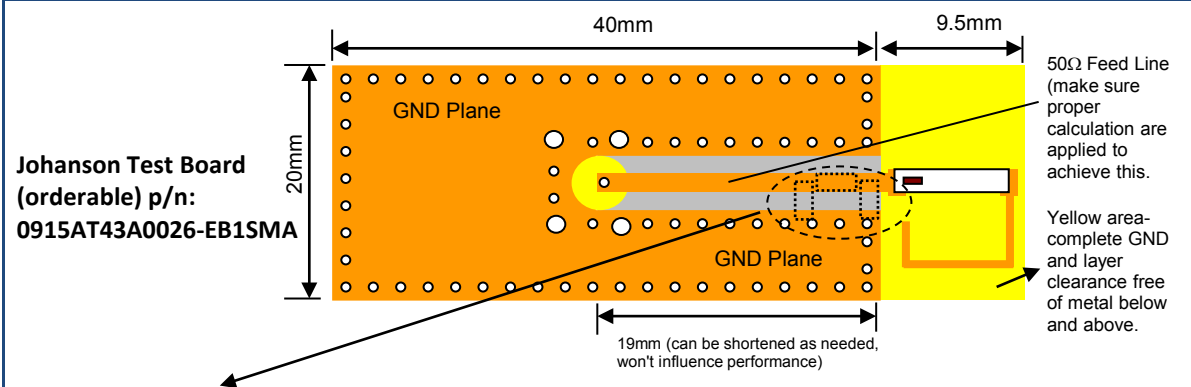
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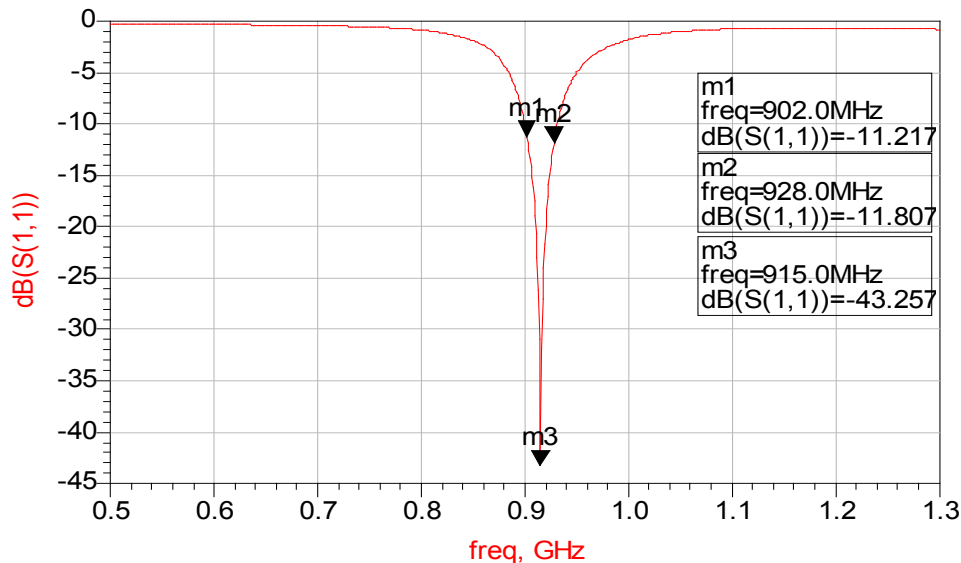
Recommended Application ISM

## Mounting Considerations II



**\*\*Note 2:** It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: <http://johansontechnology.com/tuning> and see how to obtain the new values. If you need further help, contact our RF Applications Eng. Team at:

### Return Loss (with matching)



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915 MHz Antenna

Detail Specification: 4/10/2013

P/N 0915AT43A0026

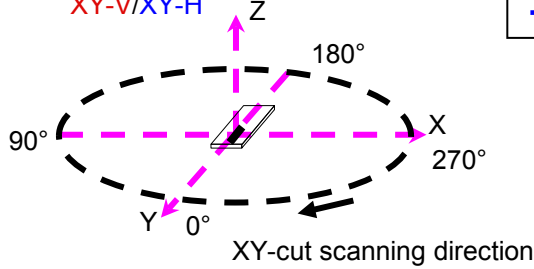
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Recommended Application ISM

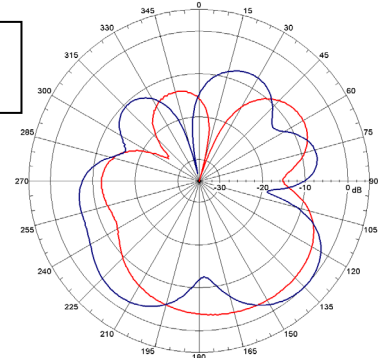
## Typical Radiation Performance @ 25° C using 0915AT43A0026-EB1SMA

### Typical Radiation Patterns

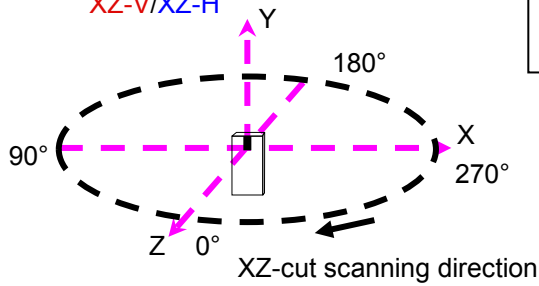
XY-V/XY-H



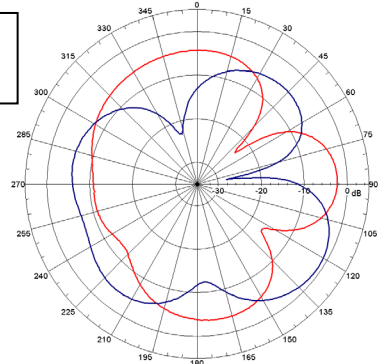
XY cut @915MHz  
 — Vertical  
 ..... Horizontal



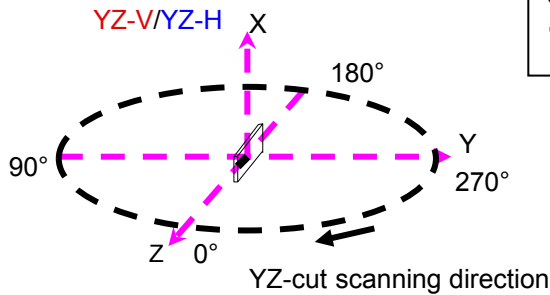
XZ-V/XZ-H



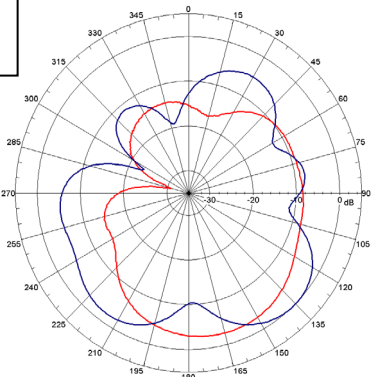
XZ cut @915MHz  
 — Vertical  
 ..... Horizontal



YZ-V/YZ-H



YZ cut @915MHz  
 — Vertical  
 ..... Horizontal



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