



# Antenna Datasheet

# "High Frequency Ceramic Solutions"

## 915 MHz Antenna

Detail Specification: 4/10/2013

P/N 0915AT43A0026

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Recommended Application ISM

### General Specifications

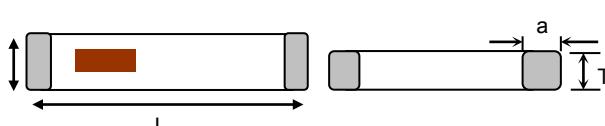
Part Number	0915AT43A0026	Input Power	2W max. (CW)
Frequency (MHz)	902 - 928 Mhz	Operating Temperature	-40 to +85°C
Peak Gain (XZ-total)	-1.0 dBi typ.	Recommended Storage Conditions	+5 to +35°C, Humidity 45~75%RH
Average Gain (XZ-total)	-4.0 dBi typ.	Reel Quantity	1,000
Return Loss	8.5 dB min.		

### Part Number Explanation

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

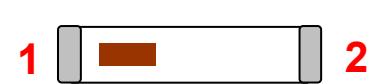
### Mechanical Dimensions

	In	mm
L	0.276 ± 0.008	7.00 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.031 ± +.004/-0.08	0.80 ± +0.1/-0.2
a	0.020 ± 0.012	0.50 ± 0.30



### Terminal Configuration

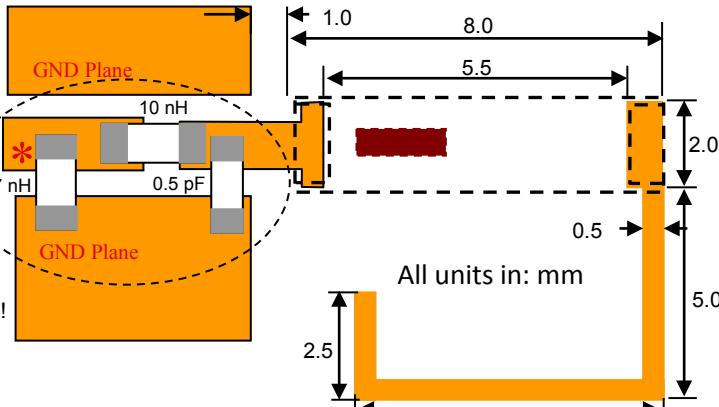
No.	Function
1	Feeding Point
2	NC*



\*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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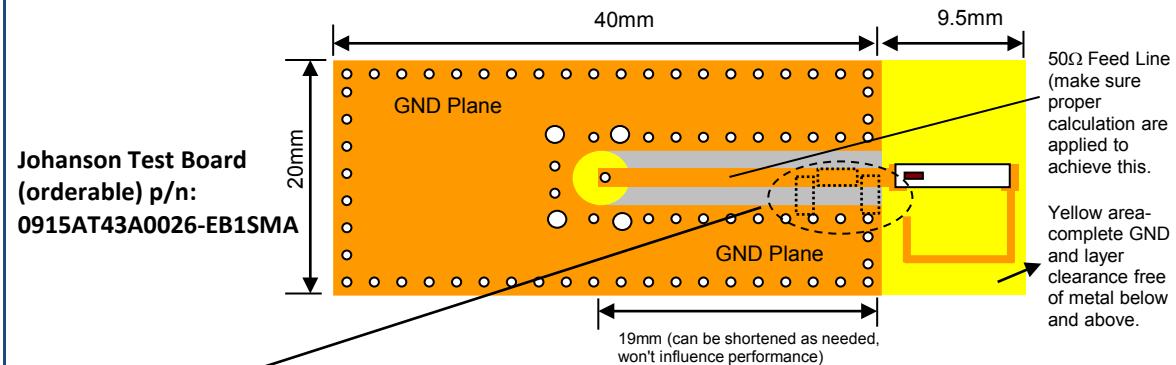
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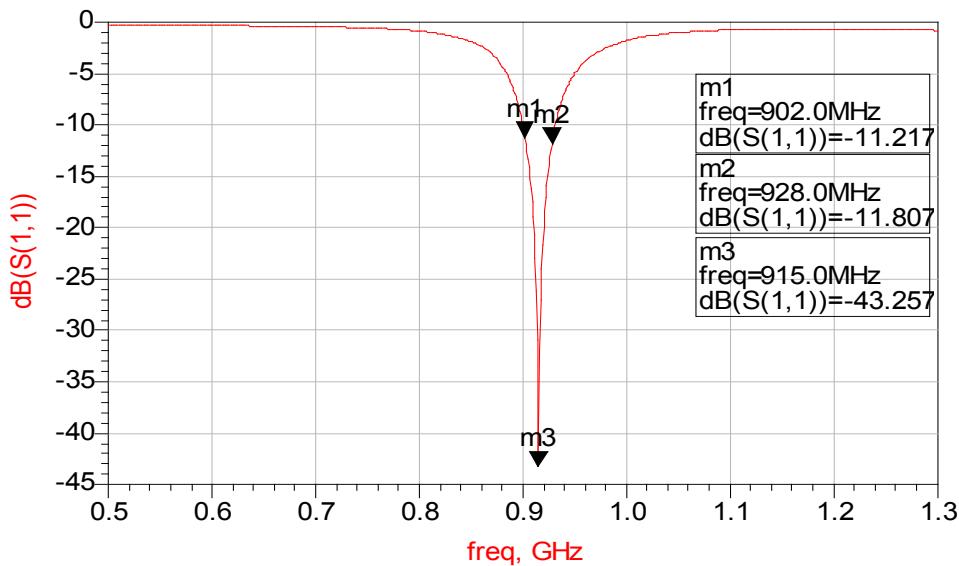
Recommended Application ISM

### 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)



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.

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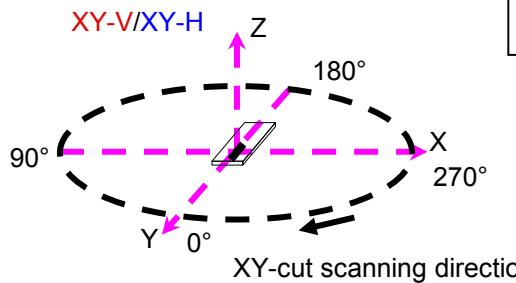
P/N 0915AT43A0026

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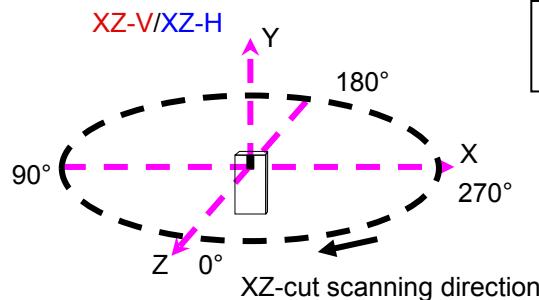
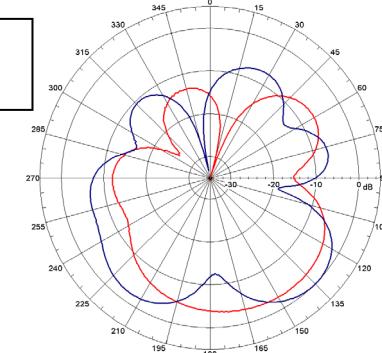
Recommended Application ISM

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

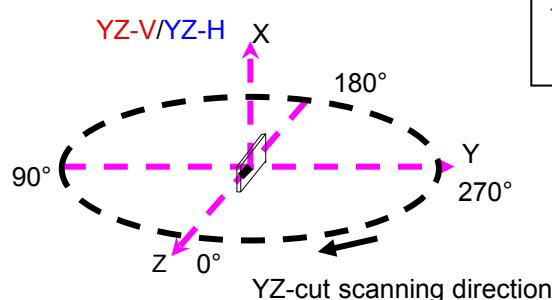
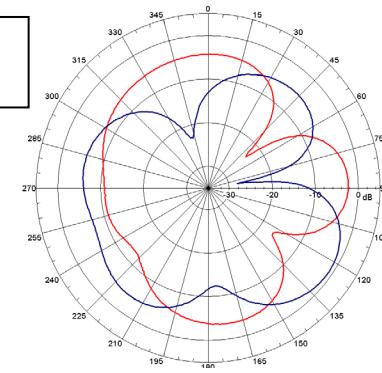
#### Typical Radiation Patterns



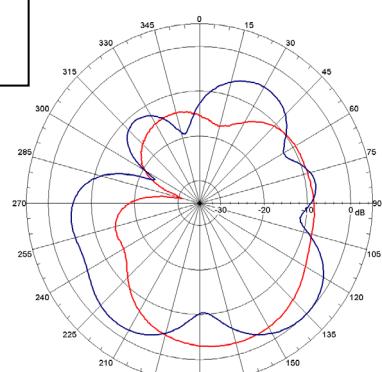
XY cut @915MHz  
— Vertical  
- - - Horizontal



XZ cut @915MHz  
— Vertical  
- - - Horizontal



YZ cut @915MHz  
— Vertical  
- - - Horizontal



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