

"High Frequency Ceramic Solutions"

915 MHz Antenna

Detail Specification: 4/10/2013

P/N 0915AT43A0026

Page 1 of 3

Recommended Application ISM

General Specifications

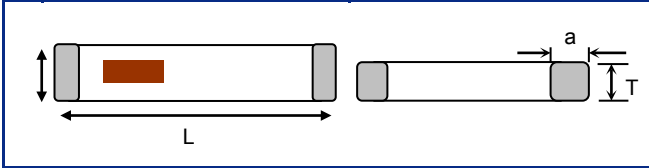
Part Number	0915AT43A0026	Input Power	2W max. (CW)
Frequency (MHz)	902 - 928 Mhz	Operating Temperature	-40 to +85°C
Peak Gain (XZ-total)	-1.0 dBi typ.	Recommended Storage Conditions	+5 to +35°C, Humidity 45~75%RH
Average Gain (XZ-total)	-4.0 dBi typ.	Reel Quantity	1,000
Return Loss	8.5 dB min.		

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/-0.008	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

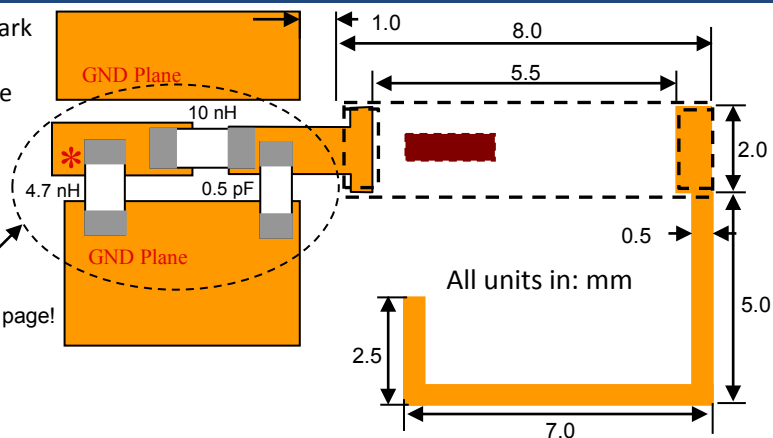
Mounting Considerations I

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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915 MHz Antenna

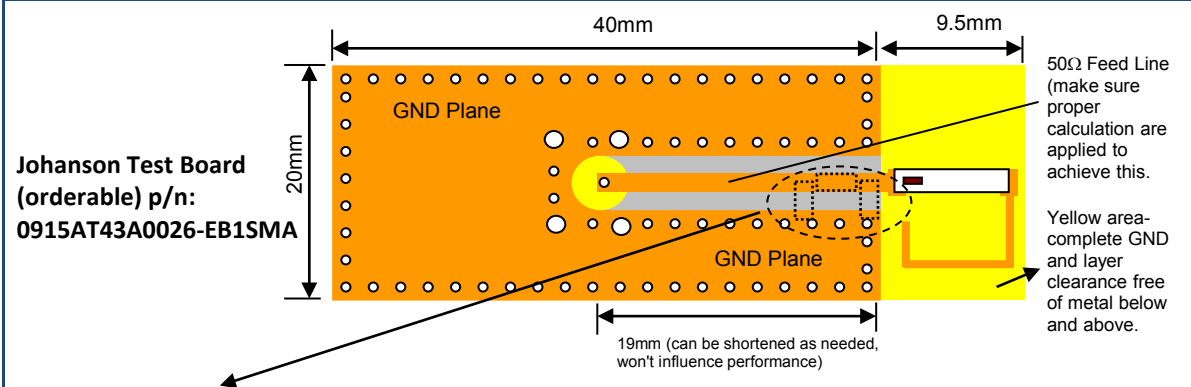
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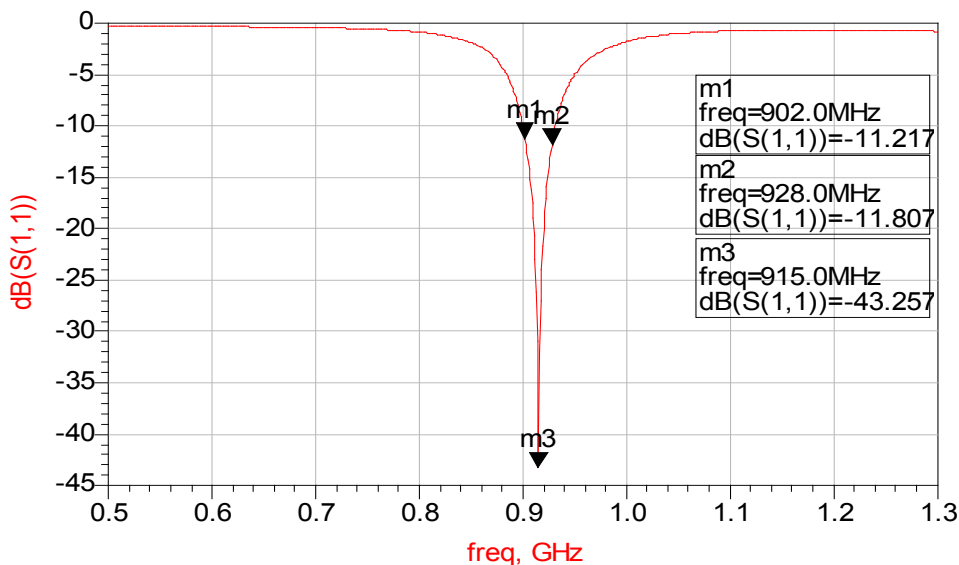
Recommended Application ISM

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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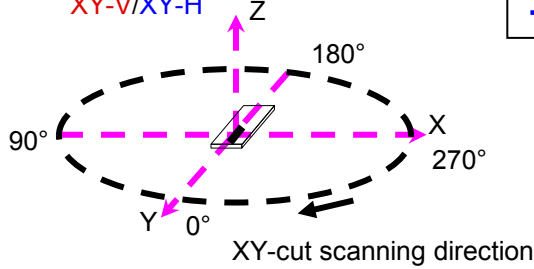
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Recommended Application ISM

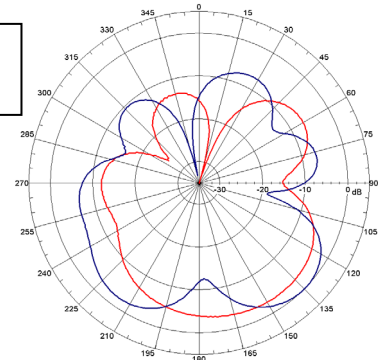
Typical Radiation Performance @ 25° C using 0915AT43A0026-EB1SMA

Typical Radiation Patterns

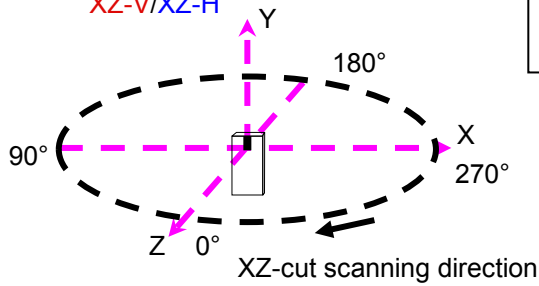
XY-V/XY-H



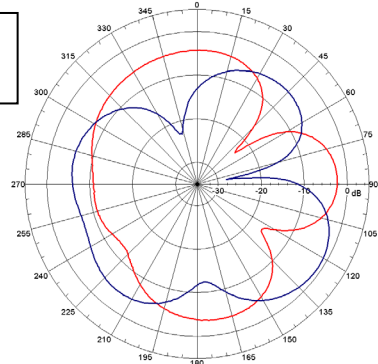
XY cut @915MHz
— Vertical
⋯ Horizontal



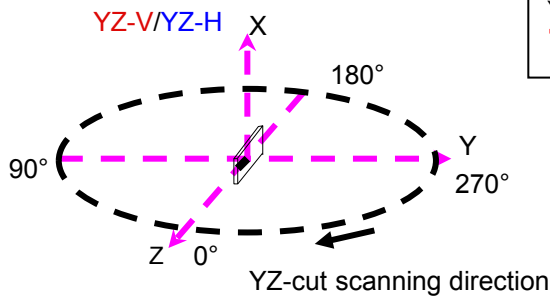
XZ-V/XZ-H



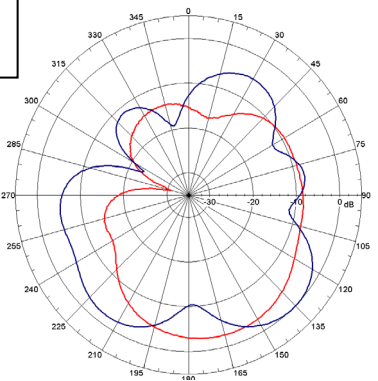
XZ cut @915MHz
— Vertical
⋯ Horizontal



YZ-V/YZ-H



YZ cut @915MHz
— Vertical
⋯ Horizontal



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