# 915 MHz ISM Antenna for small form factor applications P/N 0915AT43A0026 Detail Specification: 1/11/2016 Page 1 of 5

**Recommended Application ISM** 

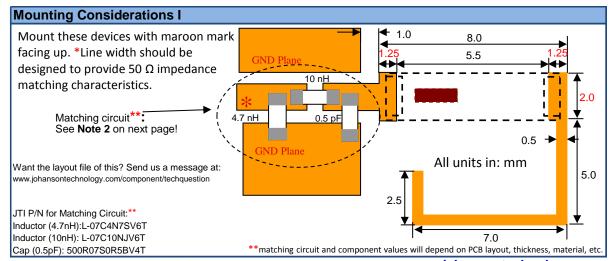
General Specifications					
Part Number	0915AT43A0026	Input Power	2W max. (CW)		
Frequency (MHz)	902 - 928 Mhz	Operating Temperature	-40 to +85°C		
Peak Gain (XZ-total)	-1.0 dBi typ.	Recommended Storage	+5 to +35°C,		
Average Gain (XZ-total)	-4.0 dBi typ.	Conditions	Humidity 45~75%RH		
Return Loss	8.5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

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)	
	Evaluation Board	0915AT43A0026-EB1SMA			

Mechanical Dimensions				
	ln	mm		
L	0.276 ± 0.008	7.00 ± 0.20		
W	0.079 ± 0.008	2.00 ± 0.20		
Т	0.031 ± +.004/008	0.80 ± +0.1/-0.2		
а	0.020 ± 0.012	0.50 ± 0.30		
1	L	a <u>↓</u>		

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Terminal Configuration				
No.	Function			
1	Feeding Point			
2	NC*			
1 2  *This terminal must be soldered for anchoring and functionality purposes				



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Ver 2.2

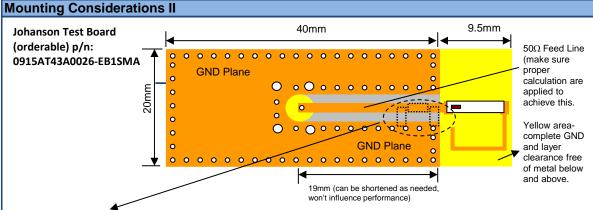
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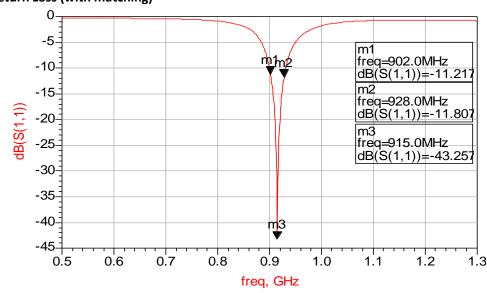
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**Recommended Application ISM** 



\*\*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: www.johansontechnology.com/tuning and see how to obtain the new values. If you need further help, such as needing the layout file of the above, contact our RF Applications Eng. Team at: www.johansontechnology.com/ask-a-question

#### Return Loss (with matching)



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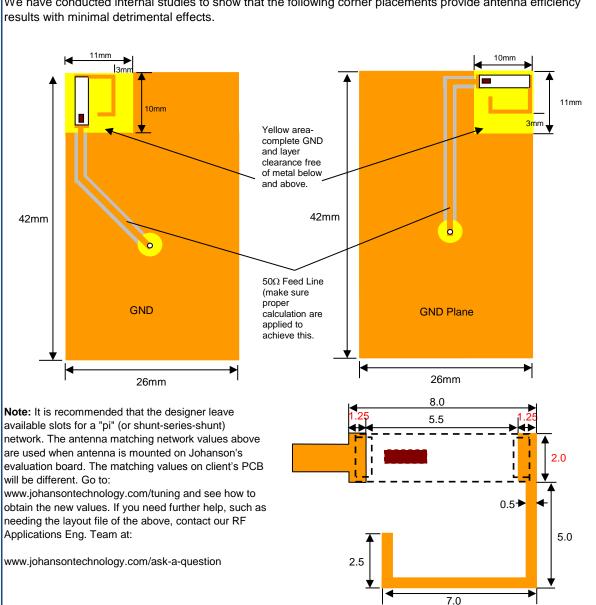
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#### **Mounting Considerations III**

We have conducted internal studies to show that the following corner placements provide antenna efficiency



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915 MHz ISM Antenna for small form factor applications

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**Recommended Application ISM** 

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Typical Radiation Performance @ 25° C using 0915AT43A0026-EB1SMA **Typical Radiation Patterns** XY cut @915MHz Vertical XY-V/XY-H Ζ Horizontal 180° XY-cut scanning direction XZ cut @915MHz XZ-V/XZ-H Vertical Horizontal 180° 0° XZ-cut scanning direction YZ cut @915MHz YZ-V/YZ-H Vertical Horizontal 180°

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YZ-cut scanning direction

915 MHz ISM Antenna for small form factor applications

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More SMD Chip Antennas at:

www.johansontechnology.com/antennas

**Packaging information** 

www.johansontechnology.com/tape-reel-packaging

**Soldering Information** 

www.johansontechnology.com/typical-soldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values)

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipc-antenna-services

**RoHS Compliance** 

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