915 MHz ISM Antenna for small form factor applications P/N 0915AT43A0026 Detail Specification: 9/7/2016 Page 1 of 5

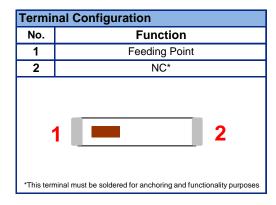
Recommended Application ISM

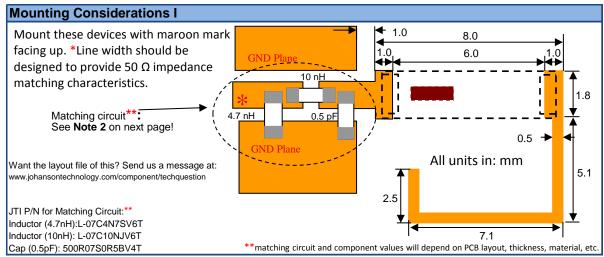
General Specifications						
Part Number	0915AT43A0026	Input Power	2W max. (CW)			
Frequency (MHz)	902 - 928 Mhz	Operating Temperature	-40 to +85°C			
Peak Gain (XZ-total)	-1.0 dBi typ.	Recommended Storage	+5 to +35°C,			
Average Gain (XZ-total)	-4.0 dBi typ.	Conditions	Humidity 45~75%RH			
Return Loss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

Me	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				
,	L	<u>→</u> a <u>←</u>				

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Ver 2.3

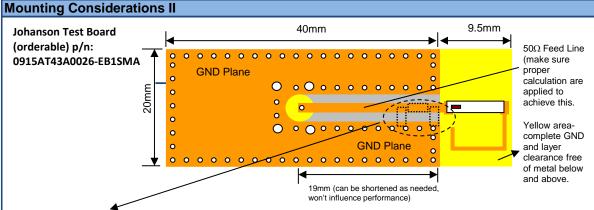
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915 MHz ISM Antenna for small form factor applications

P/N 0915AT43A0026

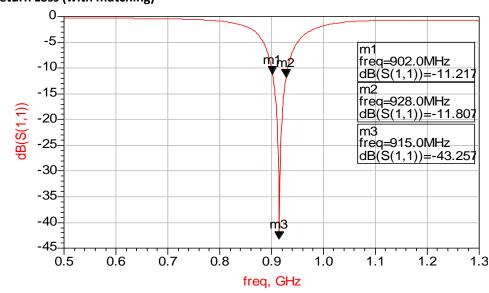
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Recommended Application ISM



**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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915 MHz ISM Antenna for small form factor applications

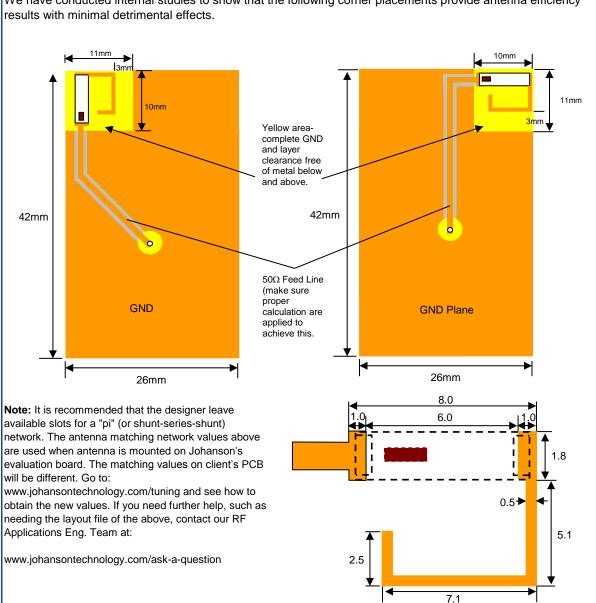
P/N 0915AT43A0026

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Recommended Application ISM

Mounting Considerations III

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



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Recommended Application ISM 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° YZ-cut scanning direction

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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

www.johansontechnology.com/rohs-compliance

MSL Info

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