AEC-Q200 Qualification Available

Detail Specification:

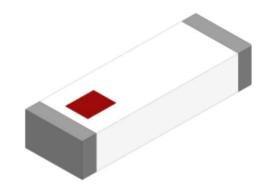
915 MHz ISM Antenna for small form factor applications

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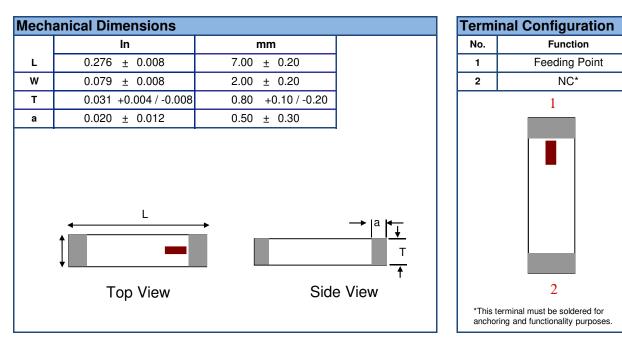
General Specifications				
Part Number	0915AT43A0026			
Frequency (MHz)	902 - 928			
Peak Gain (dBi)	1.0 typ. ((XZ-total)			
Average Gain (dBi)	-4.0 typ. (XZ-total)			
Return Loss (dB)	8.5 min.			
Impedance (Ω)	50			
Input Power (W)	2 max. (CW)			
Operating Temperature	-40 to +85°C			
Recommended Storage Conditions and Period	+5 to +35°C			
	Humidity 45 - 75% RH			
for unused T&R Product	18 months max.			
Reel Quantity (pcs/reel)	1,000			

2/11/2021

Let us help you with the antenna design, optimization, and tuning! https://www.johansontechnology.com/ask-a-question



Part Number Explanation						
P/N Suffix	Packing Style	Bulk (loose pcs.)	Suffix = S	e.g. 0915AT43A0026S		
		T&R	Suffix = E	e.g. 0915AT43A0026E		
		100% Tin	Suffix = None	e.g. 0915AT43A0026(E or S)		
	Evaluation Board	0915AT43A0026-EB1SMA				



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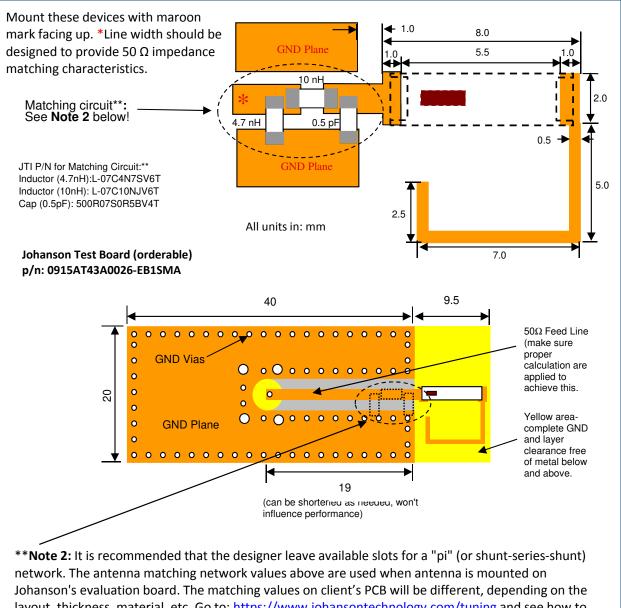
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Mounting Considerations I



layout, thickness, material, etc. Go to: https://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: https://www.johansontechnology.com/ask-a-question

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Detail Specification:

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Typical Radiation Performance @ 25° C using 0915AT43A0026-EB1SMA XY cut @915MHz **Typical Radiation Patterns** Vertical Horizontal XY-V/XY-H ۸Z 180° X 90° 270° 0° XY-cut scanning direction XZ cut @915MHz XZ-V/XZ-H Vertical Y Horizontal 180° Х 90° 270° 0° Ζ XZ-cut scanning direction YZ-V/YZ-H X YZ cut @915MHz Vertical Horizontal 180° 90° 270° 0° Ζ YZ-cut scanning direction

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Mounting Considerations II

Mount these devices with maroon mark facing up. *Line width should be designed to provide 50 Ω impedance matching characteristics. 1.0 0.5 **GND** Plane 5.5 1.0 5.6 pF I 2.0 2.2 nF 8.0 5.5 **GND** Plat 0.5 6.0 All units in: mm 4.0 Matching circuit**: See **Note 2** in Page 2! 7.5 JTI P/N for Matching Circuit:** Inductor (2.2nH):L-07C2N2SV6T Cap (5.6pF):500R07S5R6BV4T 40 9.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 50Ω Feed Line 0 (make sure 0 **GND** Vias proper Ο calculation are 0000 0 0 0 0 0 applied to 20 0 0 achieve this. 0 0 0 000000 Ο 0 **GND** Plane Yellow areacomplete GND 0 and layer 0 0 0 0 0 0 0 -0 0 0 0 0 0 0 0 0 0 0 0 clearance free of metal below and above. 19 Matching circuits (can be shortened as needed, won't influence performance)

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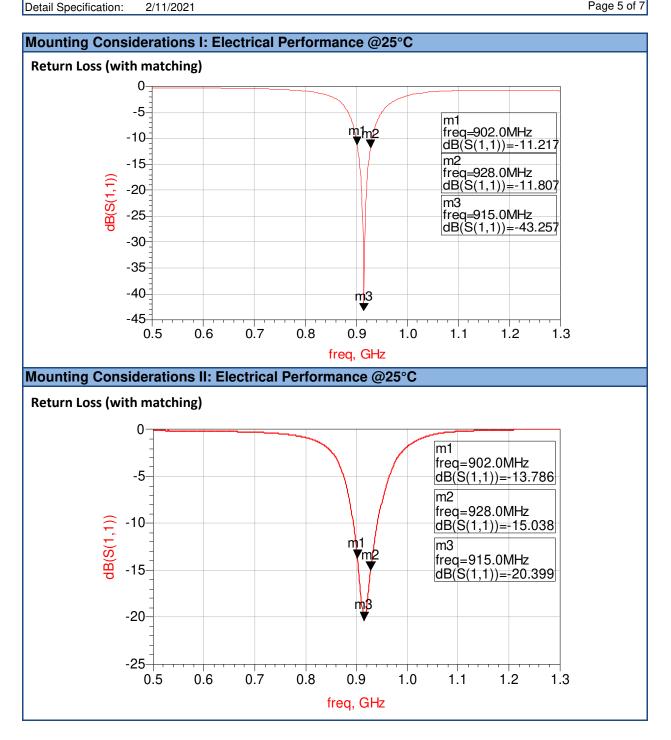
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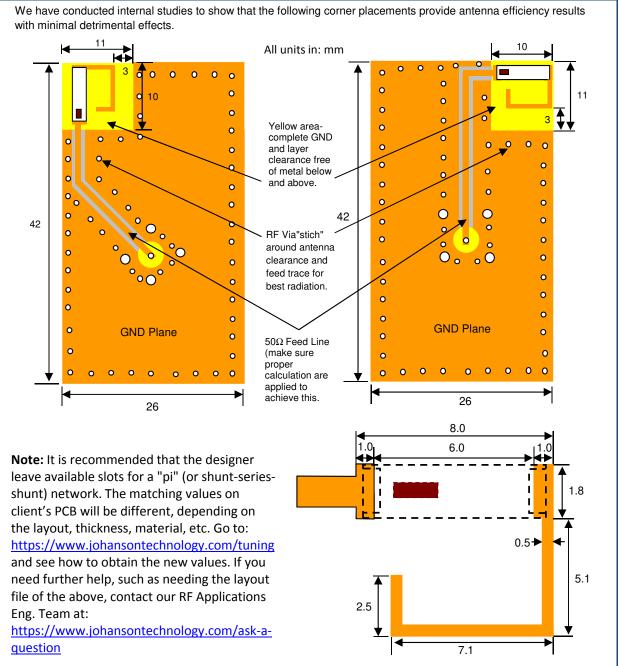
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Mounting Considerations III



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Ver. 3.0



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Antenna tuning, optimization, and validation services:

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For more antennas and to download measured S-parameters, go to: https://www.johansontechnology.com/antennas

Soldering Information

https://www.johansontechnology.com/ipcsoldering-profile

MSL Info

https://www.johansontechnology.com/msl-rating

Packaging Information

https://www.johansontechnology.com/tape-reel-packaging

For layout review contact our applications team at:

https://www.johansontechnology.com/ask-a-question

RoHS Compliance

https://www.johansontechnology.com/rohs-compliance

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