"High Frequency Ceramic Solutions"

5.1 to 5.9 GHz, micro antenna optimized for PCB edge mount. Great for WiFi P/N 5500AT07A0900 and V2V (Vehicle to Vehicle communications)

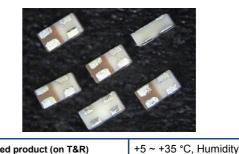
Detail Specification: 10/30/2014

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45~75%RH

18 months max.

General Specification			
Part Number	5500AT0)7A0900*	
Frequency (MHz)	5150 ~ 5850	5350 ~ 5900	
Peak Gain (dBi typ.)	0.0 (YZ-Total)	1.0 (YZ-Total)	
Average Gain (dBi typ.)	-3.0 (YZ-Total)	-1.5 (YZ-Total)	
Return Loss	6.0 dB max.	3.0 dB max.	
Power Capacity	2W max. (CW)		
Operating Temperature	-40 ~	+85 °C	Unused product (on T&R)
Storage Temperature	-40 ~ +85 °C		recommended storage conditions
Q'ty/Reel (pcs)	10,000 pcs		Storage Period

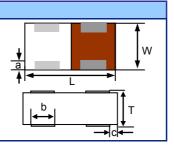


*AEC-Q200 qualifiable component.

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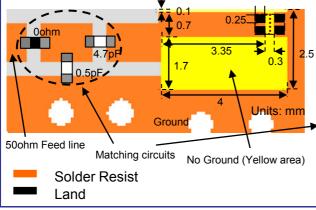
Part Number Explanation						
	Packaging Style	Bulk (loose)	Suffix = S	Eg. 5500AT07A0900S		
P/N		T & R (10000pcs)	Suffix = T	Eg. 5500AT07A0900T		
Suffix	Termination	100% Tin	Suffix = None	Eg. 5500AT07A0900(T or S)		
	Evaluation Board	5500AT07A0900-EB1SMA (pre-tuned 50ohms with female SMA connector)				

Mechanical Dimensions						
	In	mm				
L	0.039 ± 0.004	1.00 ± 0.10				
w	0.020 ± 0.004	0.50 ± 0.10				
Т	0.014 Max.	0.37 Max.				
а	0.006 +.004/006	0.15 +0.1/-0.05				
b	0.010 +.004/006	0.25 +0.1/-0.05				
С	0.003 +.004/006	0.08 +0.1/-0.05				



Terminal Configuration					
No.	Function	No.	Function		
1	Feed	3	GND		
2	GND	4	Feed		
2 1					
	3	4			

Recommended PCB Pattern



•Attention: Matching circuits and component values will be different on the client's design, depending on PCB layout, geometry, etc. It is recommended that the designer leave available slots for a "pi" (or shunt-seriesshunt) network. The antenna matching network values you see here are used when antenna is mounted on Johanson's evaluation board.

• Need help laying out the antenna, want us to review the design (free!), require the Gerber files for this EVB, or would like us to obtain the new tuning values of your PCB (fee may apply)? Go to:

www.johansontechnology.com/component/techquestion

• More antenna support info at: www.johansontechnology.com/ipcantennaservices

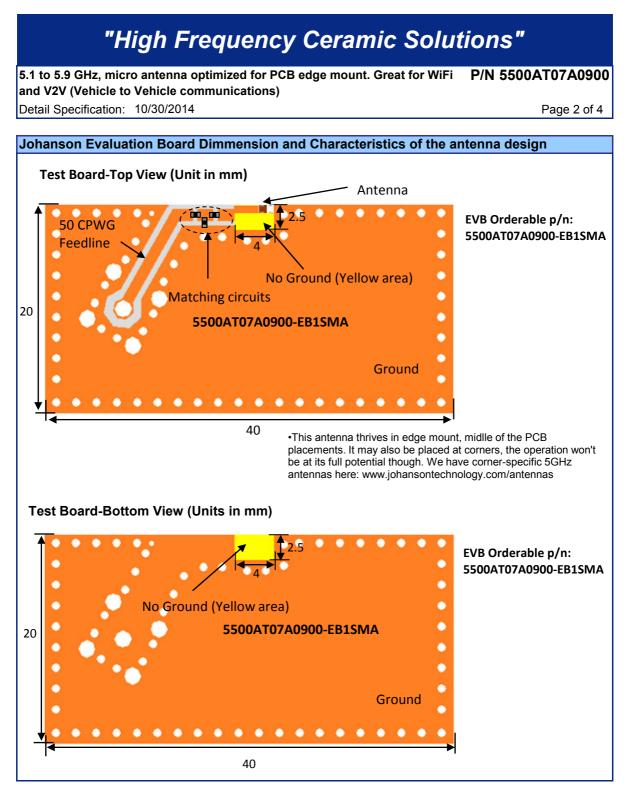
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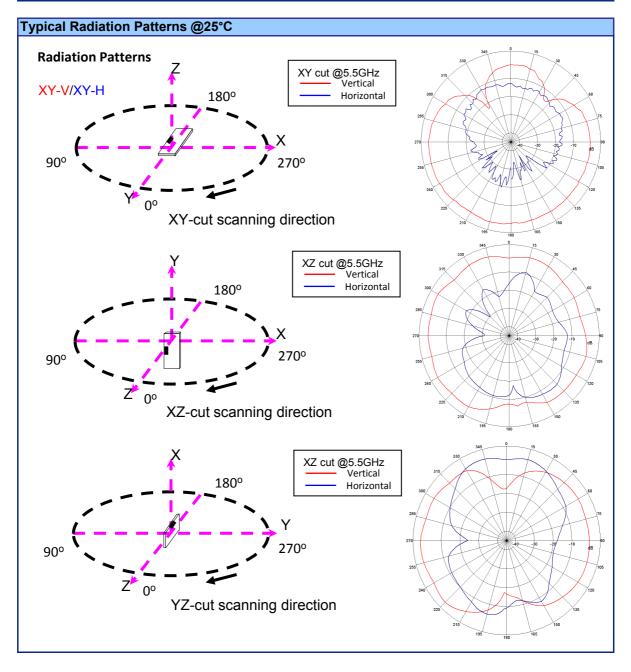
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