imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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"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)

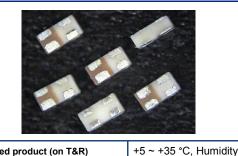
Detail Specification: 10/30/2014

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45~75%RH

18 months max.

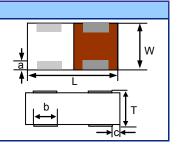
| General Specification | ıs | | |
|------------------------------|-----------------|-----------------|--------------------------------|
| Part Number | 5500AT07A0900* | | |
| Frequency (MHz) | 5150 ~ 5850 | 5350 ~ 5900 | |
| Peak Gain (dBi typ.) | 0.0 (YZ-Total) | 1.0 (YZ-Total) | |
| Average Gain (dBi 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 |

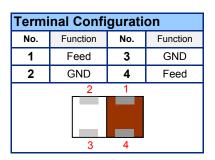


*AEC-Q200 qualifiable component.

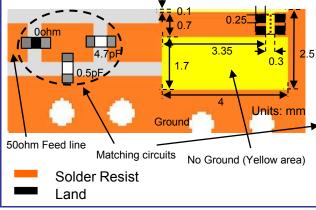
| Part Number Explanation | | | | | | | |
|-------------------------|------------------|---|---------------|---------------------------|--|--|--|
| P/N Suffix | Packaging Style | Bulk (loose) | Suffix = S | Eg. 5500AT07A0900S | | | |
| | | T & R (10000pcs) | Suffix = T | Eg. 5500AT07A0900T | | | |
| | 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 | | | |





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

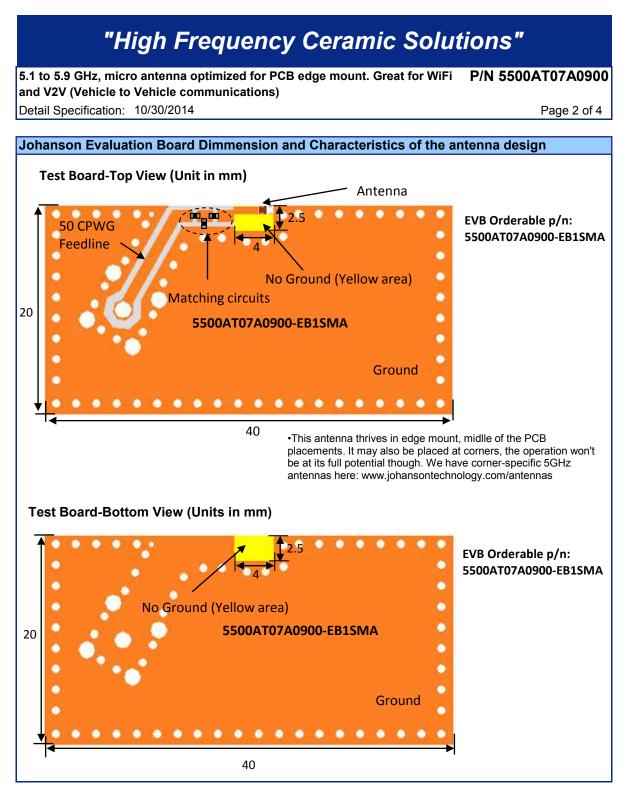
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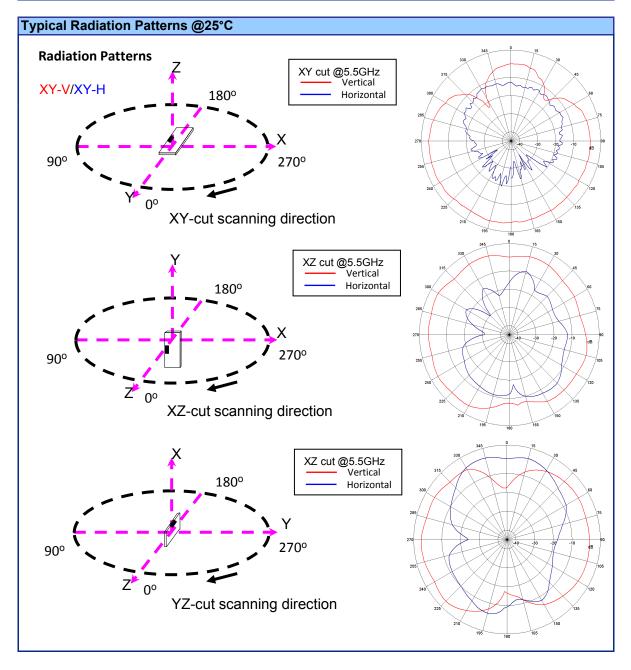
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Ver 1.0

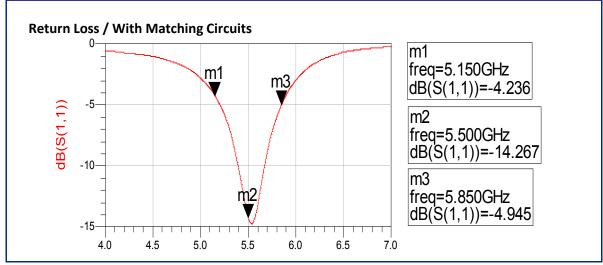
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Typical Electrical Performance (T=25°C)



Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-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/ipcantennaservices

For layout review contact our Applications Team at: www.johansontechnology.com/component/techquestion

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

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