# 7GHz Mini UWB Antenna, AEC-Q200 Qualified

# P/N 7000AT18A1600E-AEC

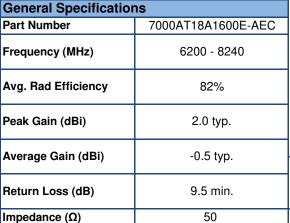
Detail Specification: 9/13/2021

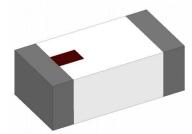
Power Capacity (W)

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Let us help you with the antenna design, optimization, and tuning!

https://www.johansontechnology.com/ipc-antenna-services





Recommended Storage	+5 to +35°C	
Conditions and Period for unused Product onT&R	Humidity 45 - 75% RH	
	18 months max.	
Operating Temperature	-40 to +105°C	
Reel Quantity (pcs./reel)	3,000	

Part Number Explanation					
D/N Suffix	P/N Suffix Packing Style	Bulk (loose pcs.)	Suffix = S	e.g. 7000AT18A1600S-AEC	
		T&R	Suffix = E	e.g. 7000AT18A1600E-AEC	
P/N Sullix		100% Tin	Suffix = E or S	e.g. 7000AT18A1600(E or S)-AEC	
	<b>Evaluation Board</b>	7000AT18A1600-EB1SMA (Pre-tuned with SMA connector)			

3 max. (CW)

Terminal Configuration			
No.	Function		
1	FEED		
2	NC		
2			

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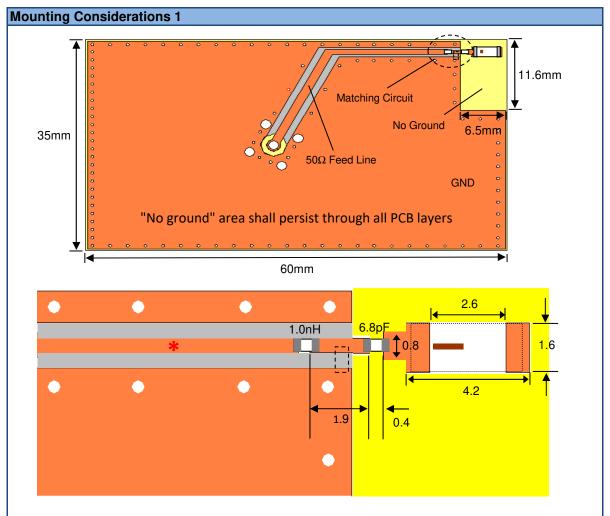
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\*Line width should be designed to match 50ohm characteristic impedance, depending on PCB material and thickness. A coplanar waveguide trace is recommended for best results.

It is recommended that the designer leave available slots for a "T" (series-shunt-series) network. These particular antenna matching values are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different, just leave them empy until final assembly, then tune. Want to learn how to tune or want us to tune for you? Go to: <a href="https://www.johansontechnology.com/ask-a-question">https://www.johansontechnology.com/ask-a-question</a>

To order a pre-tuned  $50\Omega$  EVB with a female SMA connector click here:

https://www.johansontechnology.com/request-a-sample

Reference p/n: 7000AT18A1600-EB1SMA

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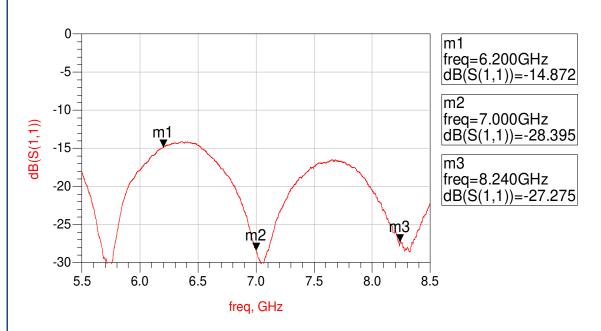
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Return Loss



Would you like the antenna layout? Have antenna tuning issues? Please contact us if you have any questions regarding the implementation of this antenna in your PCB's layout. We'll be happy to guide you to maximize the antenna's performance.

Contact our applications engineers at: <a href="https://www.johansontechnology.com/ask-a-question">https://www.johansontechnology.com/ask-a-question</a>

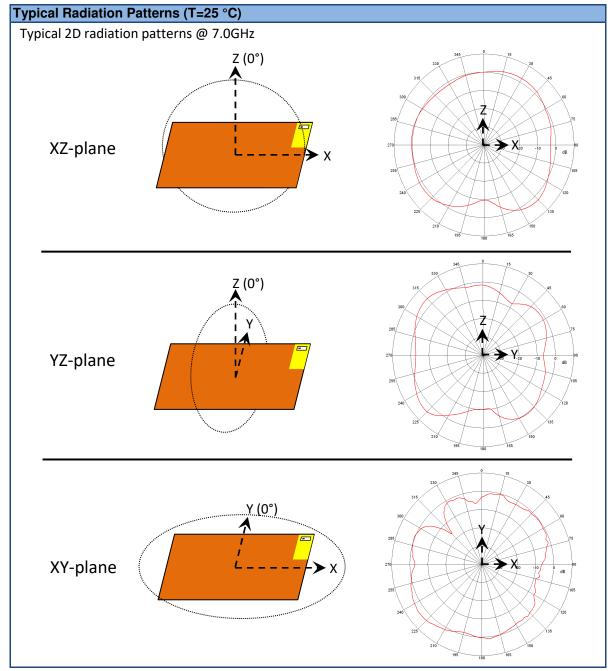
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#### Antenna tuning, optimization, and validation services:

https://www.johansontechnology.com/ipc-antenna-services

# 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

Need help designing the antenna in? Use our antenna design services!

<a href="https://www.johansontechnology.com/ipc-antenna-services">https://www.johansontechnology.com/ipc-antenna-services</a>

We provide 2 free layout reviews and if you need us to tune and characterize the antenna on your product (inside anechoic chamber) we can do that too. Small lab fee may apply for the latter.

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