



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.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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"High Frequency Ceramic Solutions"

7GHz Mini UWB Antenna

P/N 7000AT18A1600

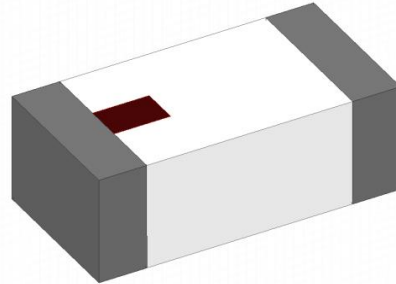
Detail Specification: 3/16/2018

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

General Specifications

Part Number	7000AT18A1600		
Frequency (GHz)	6.2 - 7.8		
Avg. Rad Efficiency	84%		
Peak Gain (dBi)	3.8		
Average Gain (dBi)	-1.3		
Return Loss (dB)	10 min.	Storage Period	18 months max.
		Storage Temperature	-40 to +85°C
Impedance	50 Ω	Operating Temperature	-40 to +85°C
Input Power	2 Watts max. (CW)	Reel Quantity	3,000

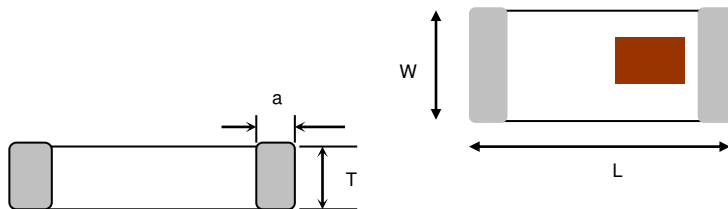


Part Number Explanation

P/N Suffix	Packing Style	Bulk (loose)	Suffix = S	e.g. 7000AT18A1600S
		T & R	Suffix = E	e.g. 7000AT18A1600E
		100% Tin	Suffix = E or S	e.g. 7000AT18A1600(E or S)
	Evaluation Board	7000AT18A1600-EB1SMA (see page 2&3 for details)		

Mechanical Dimensions

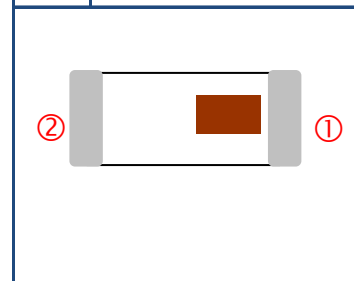
	In	mm
L	0.126 ± 0.008	3.20 ± 0.2
W	0.063 ± 0.008	1.60 ± 0.2
T	0.051 + 0.004 / -0.008	1.30 +0.1 / -0.2
a	0.020 ± 0.012	0.50 ± 0.3



Want the layout file? Request it at: www.johansontechnology.com/ask-a-question

Terminal Configuration

No.	Function
1	FEED
2	NC



Johanson Technology, Inc. reserves the right to make design changes without notice.
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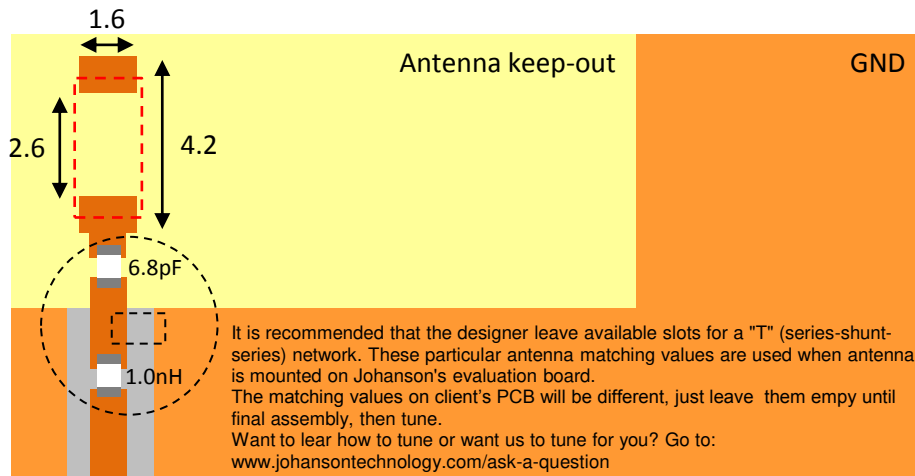
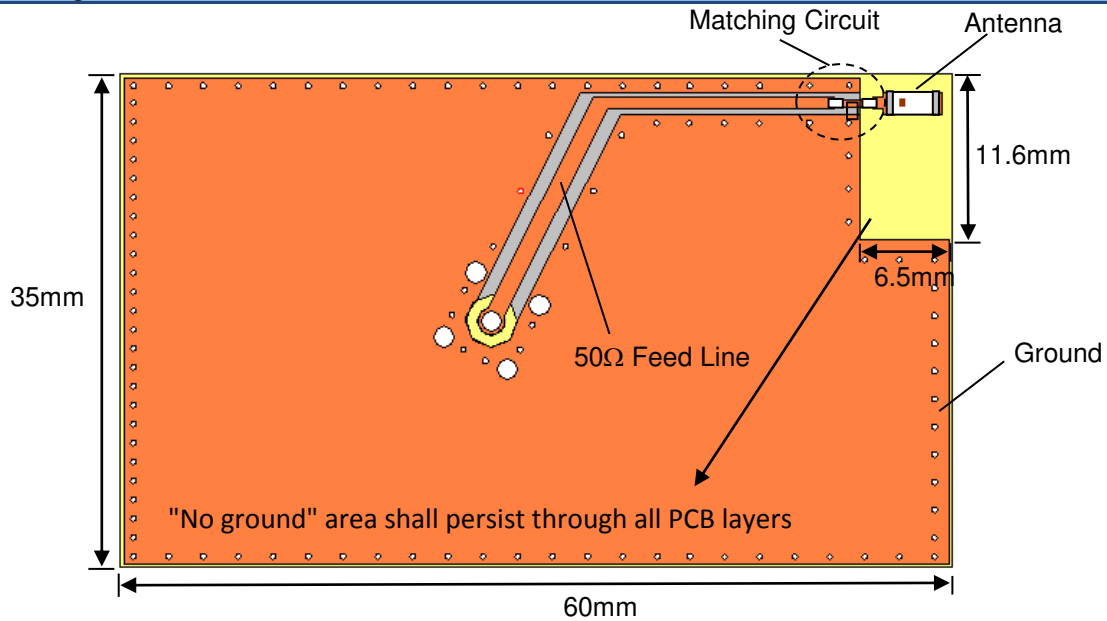
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Mounting Considerations 1: Evaluation Board



To order a pre-tuned 50Ω EVB with a female SMA connector click here:

www.johansontechnology.com/request-a-sample

Reference p/n: 7000AT18A1600-EB1SMA

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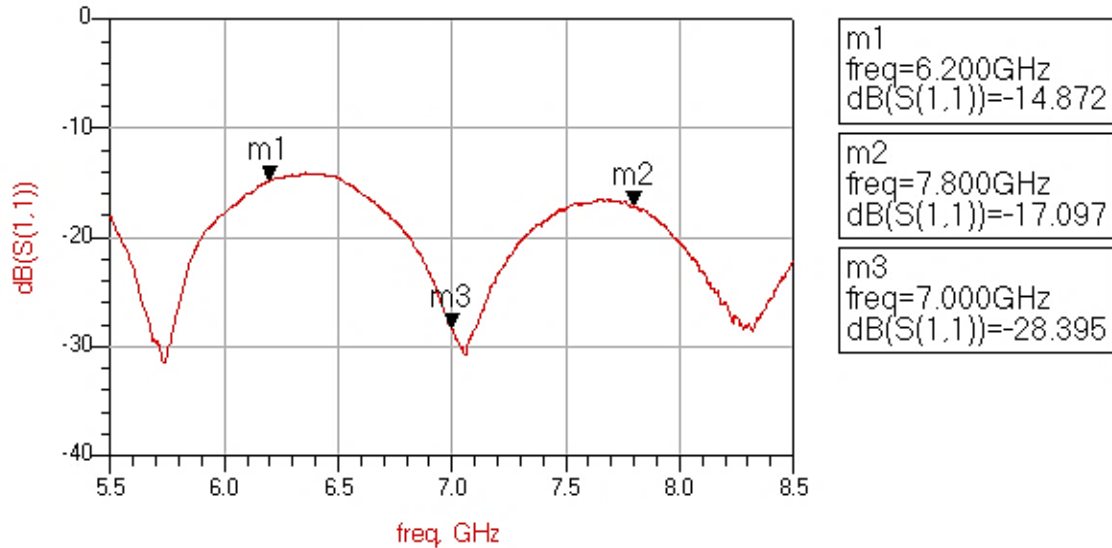
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Mounting Considerations 1: Electrical Performance @25°C

Measured 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:

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7GHz Mini UWB Antenna

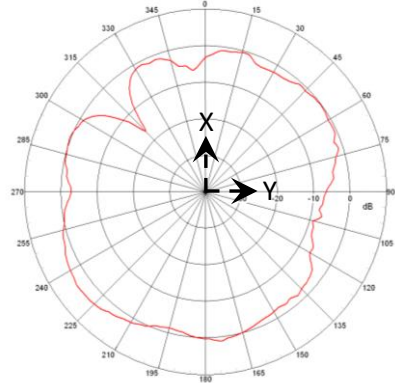
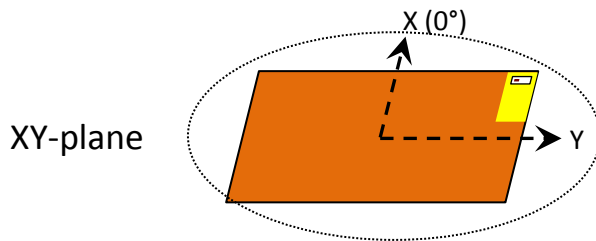
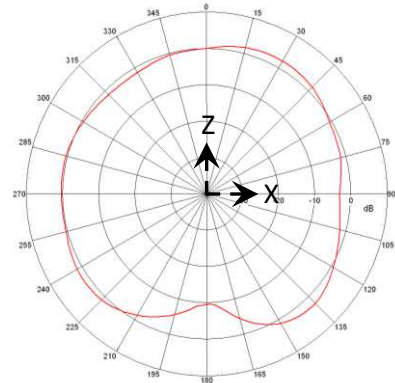
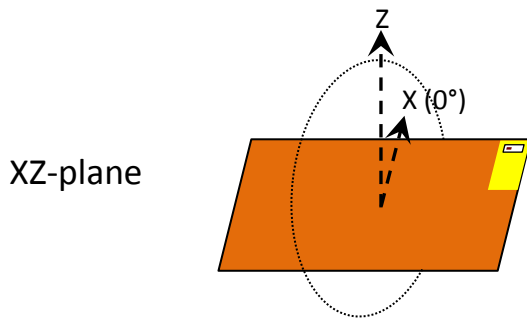
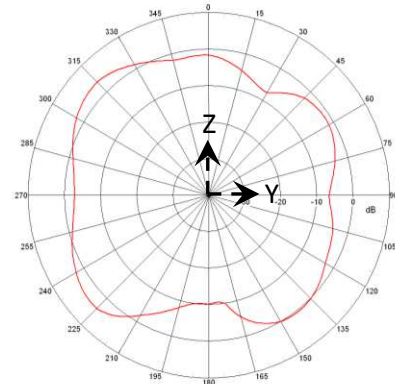
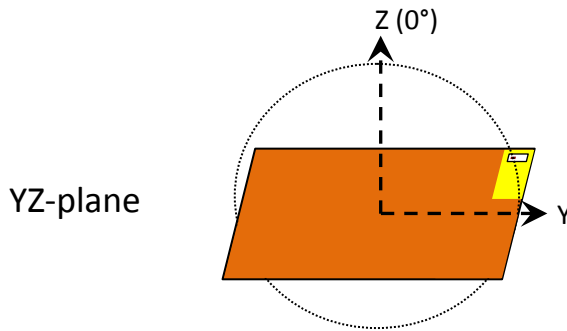
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Mounting Considerations 1: Antenna Performance

Typical 2D radiation patterns @ 7.0GHz



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Antenna tuning, optimization, and validation services:

www.johansontechnology.com/ipc-antenna-services

For more antennas and to download measured S-parameters, go to:

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Packaging information

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For layout review contact our Applications Team at:

www.johansontechnology.com/ask-a-question

RoHS Compliance

www.johansontechnology.com/rohs-compliance

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

www.johansontechnology.com/ipc-antenna-services

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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