

"High Frequency Ceramic Solutions"

7GHz Mini UWB Antenna

P/N 7000AT18A1600

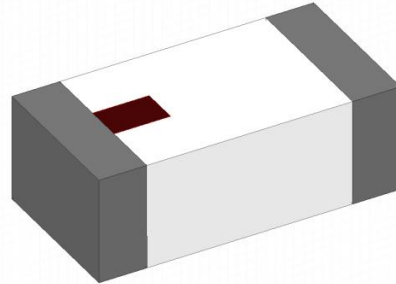
Detail Specification: 3/16/2018

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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.
Impedance	50 Ω	Storage Temperature	-40 to +85°C
Input Power	2 Watts max. (CW)	Operating Temperature	-40 to +85°C
		Reel Quantity	3,000

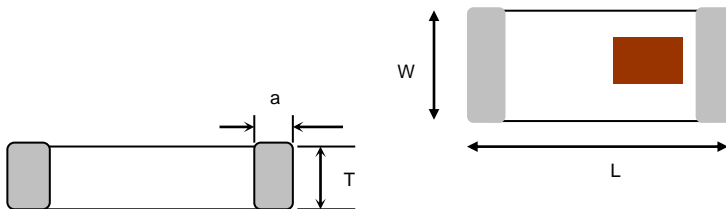


Part Number Explanation

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

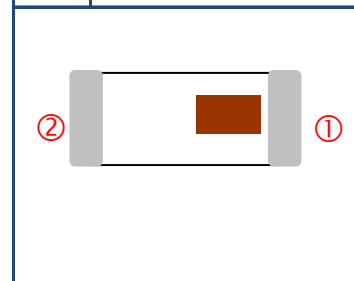
	In	mm
L	0.126 ± 0.008	3.20 ± 0.2
W	0.063 ± 0.008	1.60 ± 0.2
T	0.051 + 0.004 / -0.008	1.30 +0.1 / -0.2
a	0.020 ± 0.012	0.50 ± 0.3



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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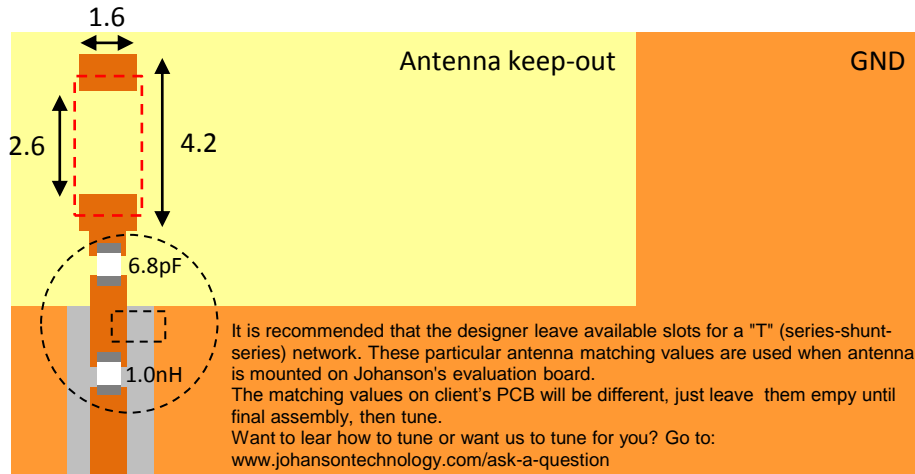
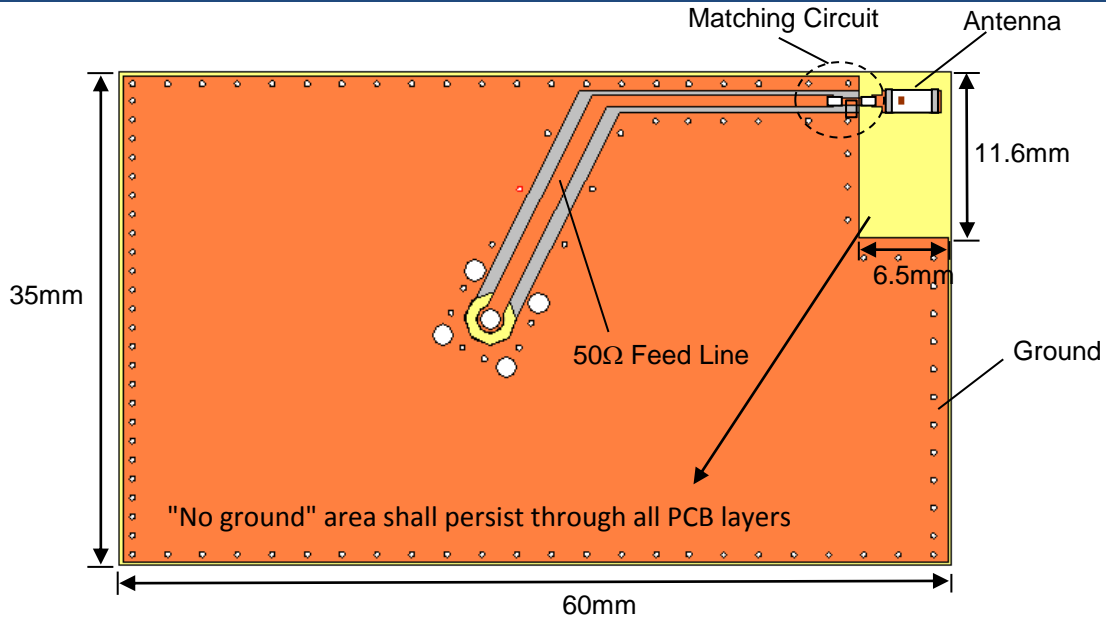
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Mounting Considerations 1: Evaluation Board



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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Ver. 1.1

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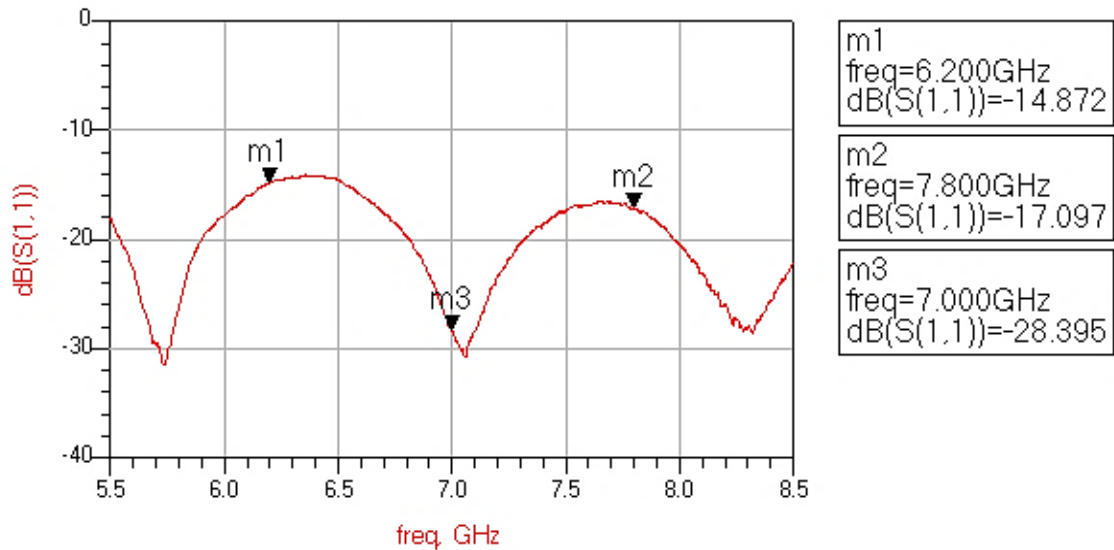
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Mounting Considerations 1: Electrical Performance @25°C

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:

www.johansontechnology.com/ask-a-question

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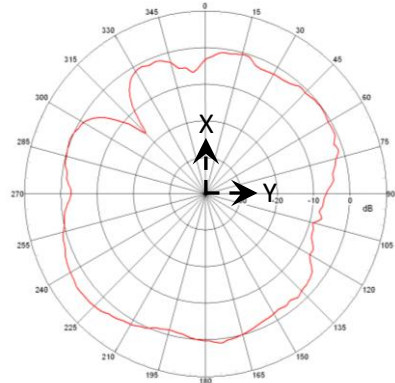
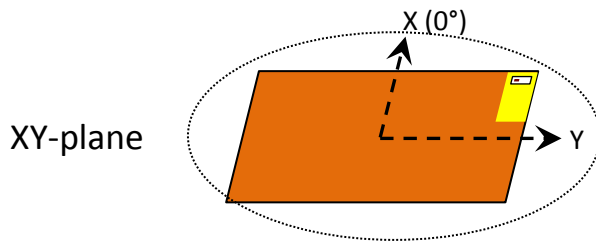
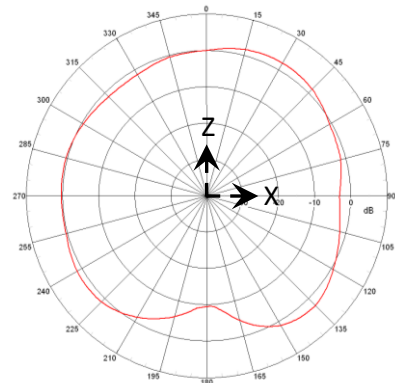
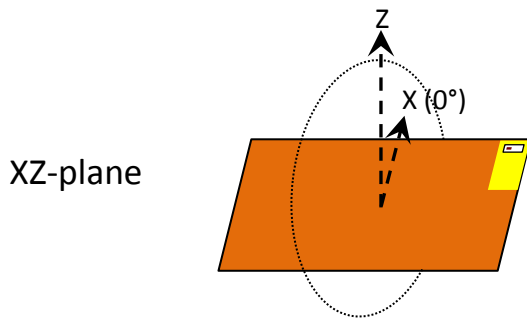
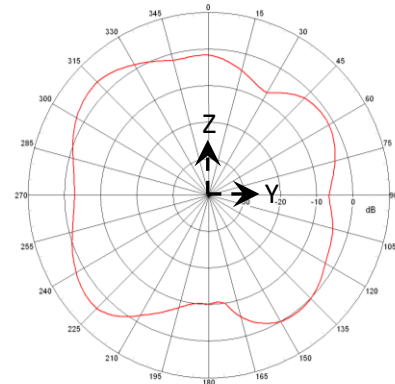
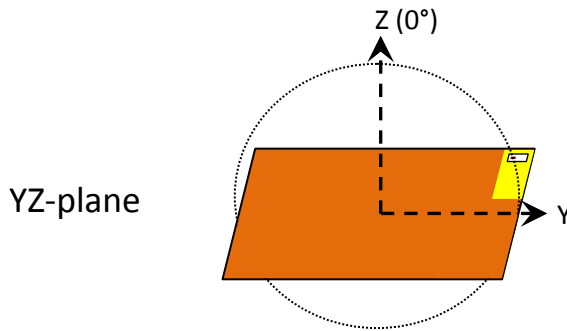
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Mounting Considerations 1: Antenna Performance

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:

www.johansontechnology.com/antennas

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/msl-rating

Packaging information

www.johansontechnology.com/tape-reel-packaging

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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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.