

"High Frequency Ceramic Solutions"

2.45 GHz wide band, small form factor SMD chip antenna

P/N 2450AT43F0100

Detail Specification: 4/22/2016

Page 1 of 5

General Specifications

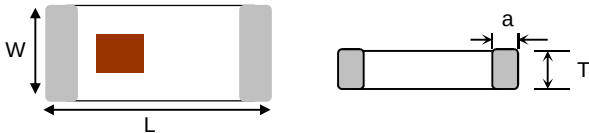
Part Number	2450AT43F0100	Reel Quantity	2,000 pcs
Operating Frequency (MHz)	2400 - 2500 Mhz	Operating Temperature	-40 to +85°C
Peak Gain (XZ-total)	2.1 dBi typ.	Recommended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH 12 months
Average Gain (XZ-total)	1.0 dBi typ.	Power Capacity	2W max. (CW)
Impedance	50 Ω		

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450AT43F0100S
		T & R	Suffix = E	eg. 2450AT43F0100E
		100% Tin	Suffix = E or S	eg. 2450AT43F0100 (E or S)
	Evaluation Board	Bulk	2450AT43F0100-EB1SMA (with female SMA connector)	

Mechanical Dimensions

	In	mm
L	0.236 ± 0.008	6.00 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.047 0.2 +0.004 / -0.008	1.20 + 0.1 / -0.2
a	0.020 ± 0.012	0.50 ± 0.30



Terminal Configuration

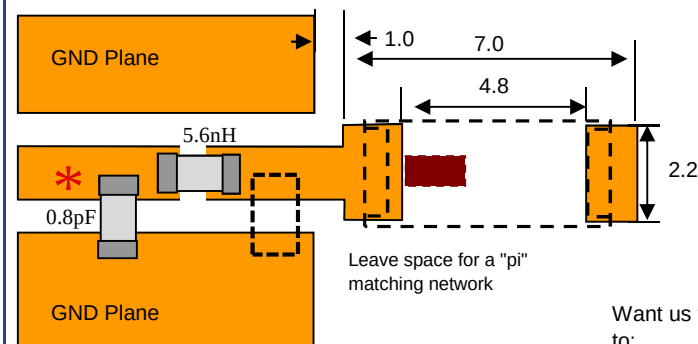
No.	Function
1	Feeding Point
2	NC



Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

*Line width should be designed to provide 50 Ω impedance matching characteristics.



It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values above are used when antenna is mounted on Johanson's evaluation board. The matching values on client's PCB will be different. Go to: www.johansontechnology.com/tuning.html and see how to obtain the new values.

Want the layout file of the above? Send us a message at: www.johansontechnology.com/ask-a-question

Want us to do the tuning and characterization for you? Go to: www.johansontechnology.com/ipc-antenna-services



www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

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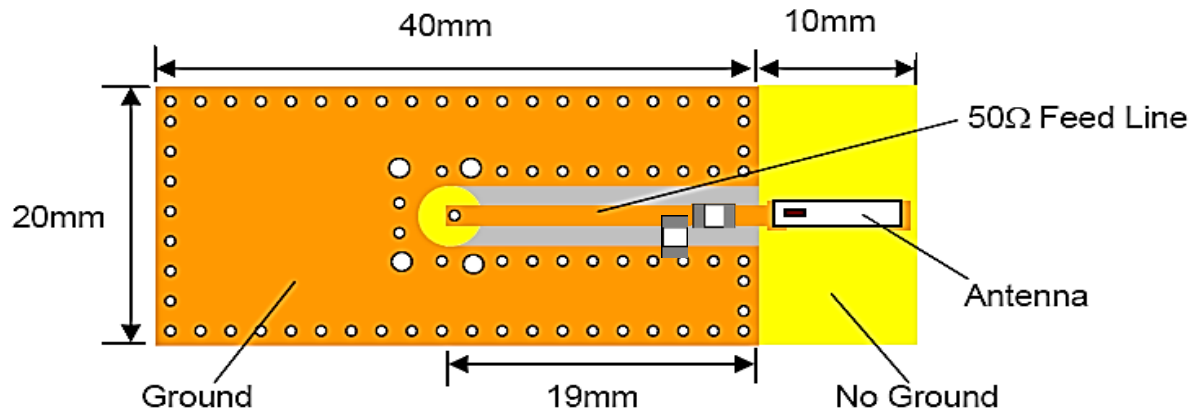
Page 2 of 5

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With Matching Circuit



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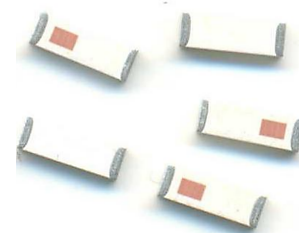
To order the EVB above for preliminary testing free (pre-tuned 50 Ω EVB with a female SMA connector) Click here:

www.johansontechnology.com/request-a-sample

Reference p/n: 2450AT43F0100-EB1SMA

We offer 2 free layout reviews as well as antenna tuning and characterization services (lab fee may apply). Go to:

www.johansontechnology.com/ipc-antenna-services



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



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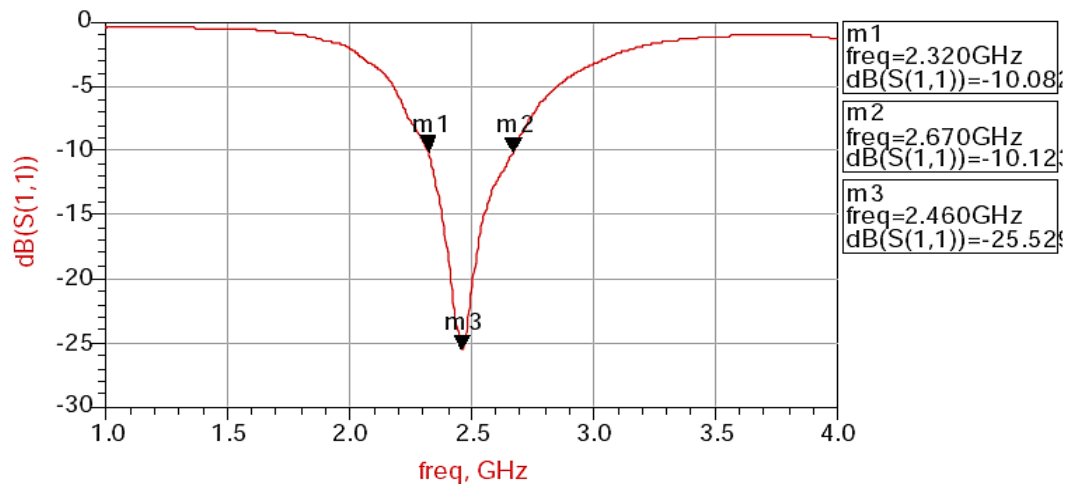
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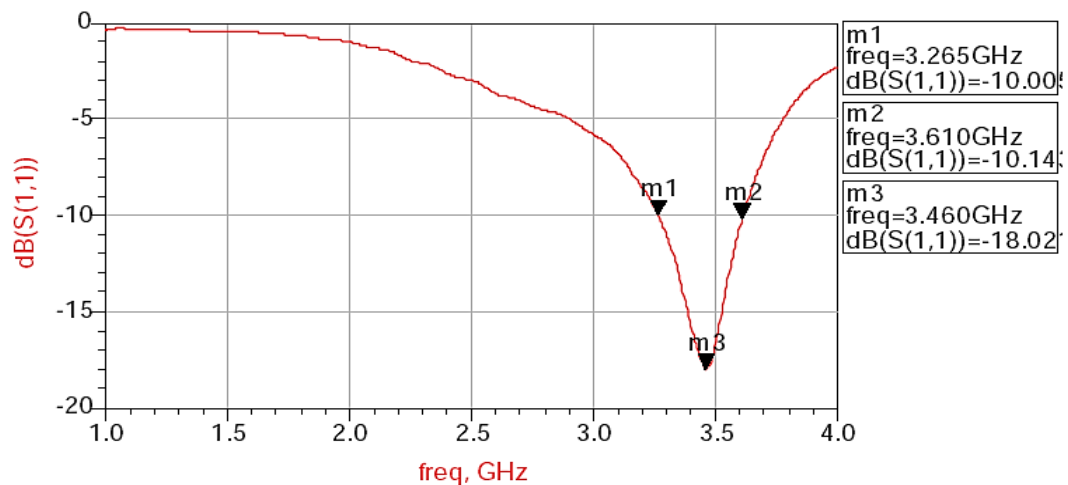
Page 3 of 5

Mounting Considerations

(a) With Matching Circuits



(b) Without Matching Circuits



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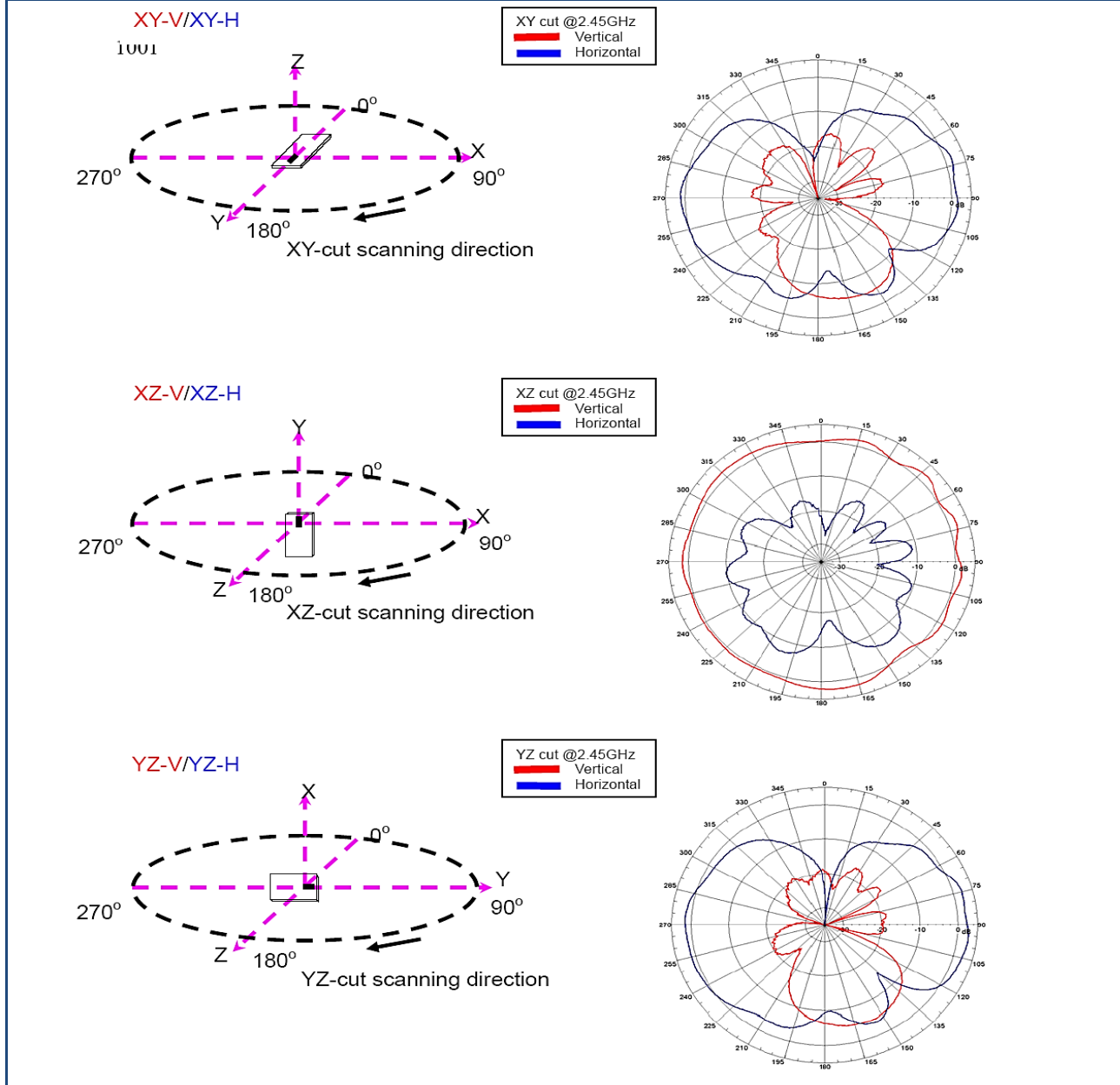
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Page 4 of 5

Typical Electrical Characteristics (T=25°C)



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Page 5 of 5

More SMD Chip Antennas at:

www.johansontechnology.com/antennas

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques (How to obtain the new antenna matching values)

www.johansontechnology.com/tuning.html

Antenna layout review, tuning, and characterization services

<http://www.johansontechnology.com/ipc-antenna-services>

RoHS Compliance

www.johansontechnology.com/rohs-compliance

MSL Info

<http://www.johansontechnology.com/msl-rating>

P/N Explanation and Breakdown

www.johansontechnology.com/ipc-pn-explained

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
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- Поставку компонентов, требующих военную и космическую приемку.
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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru