### Mini 2.45 GHz Antenna, AEC-Q200 Qualified

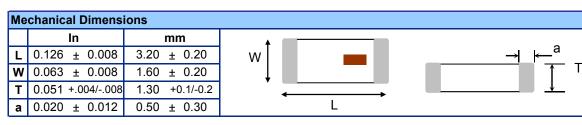
P/N 2450AT18A100F-AFC

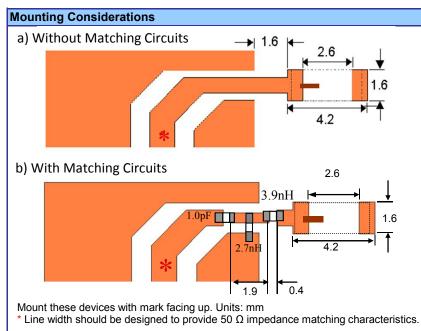
Detail Specification: 12/22/2017

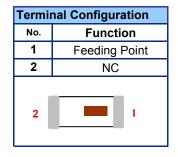
UAI	IOA		-AEU
		Page	1 of 4

General Specifications				
Part Number	2450AT18A100E-AEC			
Frequency Range	2400 - 2500 Mhz			
Peak Gain	0.5 dBi typ. (XZ-V)			
Average Gain	-0.5 dBi typ. (XZ-V)			
Return Loss	9.5 dB min.			
Input Power	2W max. (CW)			
Impedance	50 Ω			
Operating Temperature	-40 to +125°C			
Reel Quanity	3,000			









Note: It is recommended that the designer leave available slots for a "pi" (or shunt-seriesshunt) network. The antenna matching network values here are used when antenna is mounted on Johanson's evaluation board. The matching values and topology on clinet's PCB will be different.

Need our help tuning the antenna on your board? Contact our RF Applications Eng Team at<sup>.</sup>

www.johansontechnology.com/component/techquestion

Antenna Tuning services: www.johansontechnology.com/ipcantennaservices

Need the layout file of the above? Contact us at: www.johansontechnology.com/en/ask-a-technical-question.html

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 1.0

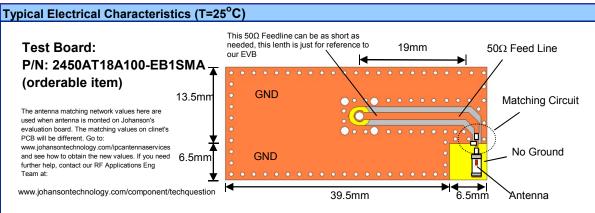
2014 Johanson Technology, Inc. All Rights Reserved

### Mini 2.45 GHz Antenna, AEC-Q200 Qualified

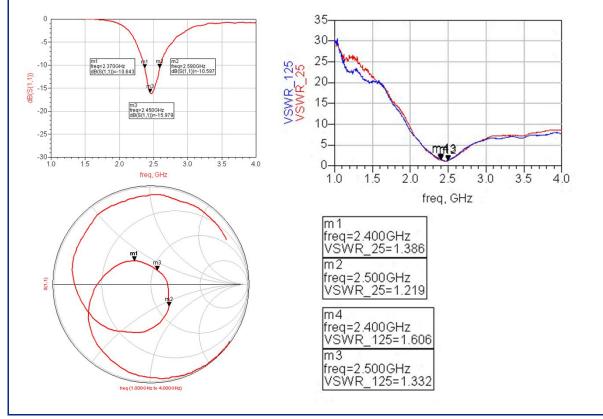
P/N 2450AT18A100E-AEC

Detail Specification: 12/22/2017

Page 2 of 4



#### Return Loss with matching circuit @ +25C VSWR with matching circuit @ +25C and +125C



Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 Ver 1.0 2014 Johanson Technology, Inc. All Rights Reserved

Mini 2.45 GHz Antenna, AEC-Q200 Qualified Detail Specification: 12/22/2017

P/N 2450AT18A100E-AEC Page 3 of 4

Typical Radiation Patterns at 2.45GHz (+25C) XY cut @2.45GHz Vertical XY-V/XY-H Ζ Horizontal 180° 90 270° XY-cut scanning direction XZ-V/XZ-H XZ cut @2.45GHz Vertical Horizontal 180° 90° 270° 0° Ζ XZ-cut scanning direction YZ-V/YZ-H YZ cut @2.45GHz Х Vertical Horizontal 180° 90° 270° 0° 7 YZ-cut scanning direction

> Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com 4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821 2014 Johanson Technology, Inc. All Rights Reserved

Ver 1.0

#### Mini 2.45 GHz Antenna, AEC-Q200 Qualified

P/N 2450AT18A100E-AEC

Page 4 of 4

Detail Specification: 12/22/2017

Part Number Explanation							
P/N Suffix	Packaging Style	Bulk (loose pieces)	Suffix = S	Eg. 2450AT18A100S-AEC			
		T&R	Suffix = E	Eg. 2450AT18A100E-AEC			
		T & R (Reverse)	Suffix = R	Eg. 2450AT18A100R (MOQ Applies)			
	Termination style	100% Tin (RoHS)	Suffix = S/E/R	Eg. 2450AT18A100(S, E, R)-AEC			
		Tin / Lead	Please consult Factory				
	Evaluation Board(s) (1-port SMA antenna test boards)	2450AT18A100-EB1SMA (Page 2) Orderable item!					

Would you like Johanson Technology's RF team to help you design and tune our antenna on your board? Click on the link below:

Antenna layout review, tuning, and characterization services www.johansontechnology.com/ipcantennaservices

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

**RoHS** Compliance

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

MSL Info

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

**Recommneded Storage Condition and Max Shelf Life** 

www.johansontechnology.com/ipcstorage-shelflife

Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

2014 Johanson Technology, Inc. All Rights Reserved

### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Johanson:

2450AT18A100E 2450AT18A0100001E 2450AT18A0100002E