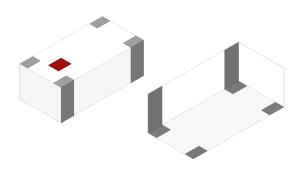
2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

Detail Specification: 5/11/2018 Page 1 of 6

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

| General Specifications | | | | |
|----------------------------------|---------------|--|--|--|
| Part Number | 2450AT18D0100 | | | |
| Frequency (GHz) | 2.4 - 2.48 | | | |
| Peak Gain (dBi) | 1.5 dBi | | | |
| Average Gain (dBi) | -1.0 dBi | | | |
| Radiated Efficiency ¹ | 72% | | | |
| Return Loss (dB) | 10 min. | | | |
| Impedance (Ω) | 50 | | | |
| Input Power (W) | 2 max. (CW) | | | |
| Operating Temperature | -40 to +125°C | | | |



Recommended Storage Conditions and Period for unused T&R Product +5 to +35°C Humidity 45 - 75% RH 18 months max.

¹Efficiency measured on Johanson's evaluation board PN 2450AT18D0100-EB1SMA

| Part Number Explanation | | | | | |
|-------------------------|------------------|----------------------|-----------------|----------------------------|--|
| P/N Suffix | Packing Style | Bulk (loose) | Suffix = S | e.g. 2450AT18D0100S | |
| | | Tray | Suffix = E | e.g. 2450AT18D0100E | |
| | | 100% Tin | Suffix = E or S | e.g. 2450AT18D0100(E or S) | |
| | Evaluation Board | 2450AT18D0100-EB1SMA | | | |

| Mechanical Dimensions | | | | | |
|-----------------------|-----------------------|------------------|--|--|--|
| | In | mm | | | |
| L | 0.126 ± 0.008 | 3.20 ± 0.2 | | | |
| W | 0.063 ± 0.008 | 1.60 ± 0.2 | | | |
| T | 0.047 ± 0.004 | 1.20 ± 0.1 | | | |
| а | 0.012 +0.004 / -0.008 | 0.30 +0.1 / -0.2 | | | |
| b | 0.020 ± 0.008 | 0.50 ± 0.2 | | | |
| a D T | | | | | |

| Terminal Configuration | | | | | |
|------------------------|------------|------------|--|--|--|
| No. | Function 1 | Function 2 | | | |
| 1 | FEED | GND | | | |
| 2 | GND | GND | | | |
| 3 | GND | GND | | | |
| 4 | GND | FEED | | | |
| 4 | | | | | |

Function 1: Antenna fed from left Function 2: Antenna fed from right

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

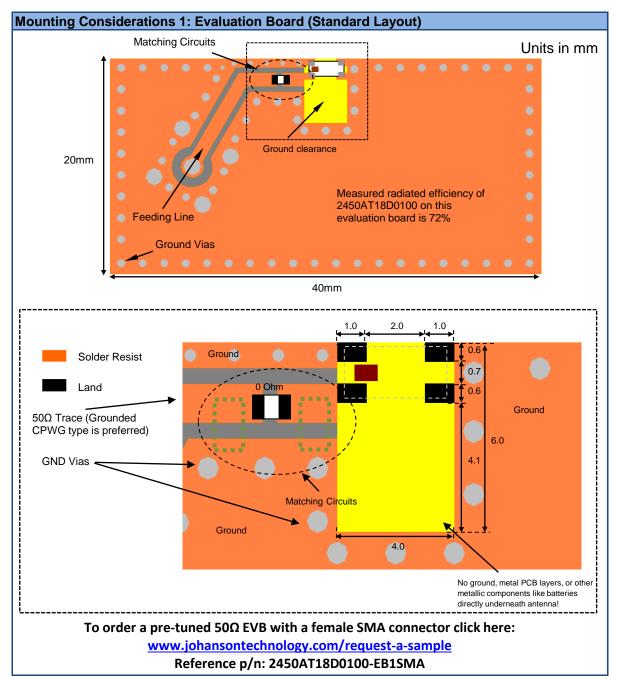


Mechanical Dimensions

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

2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

5/11/2018 Page 2 of 6 Detail Specification:



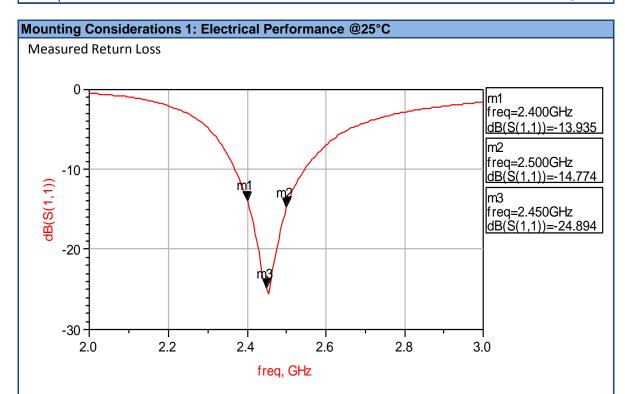
Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.





2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

Detail Specification: 5/11/2018 Page 3 of 6



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:

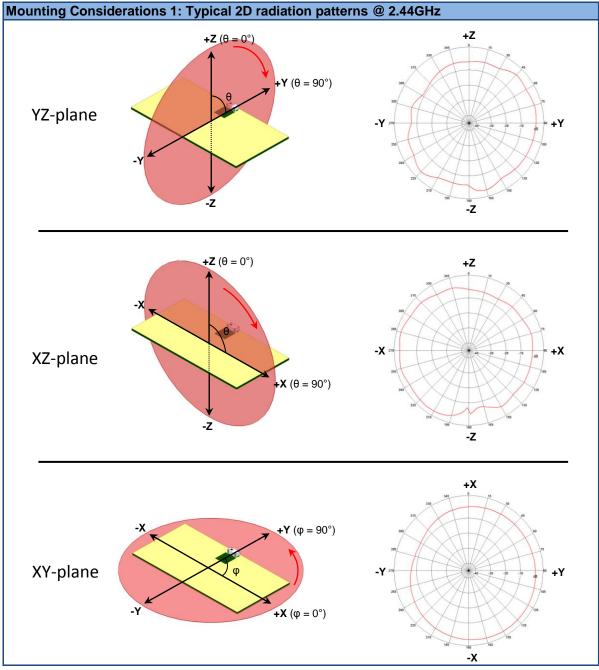
www.johansontechnology.com/ask-a-question

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



2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

Detail Specification: 5/11/2018 Page 4 of 6



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

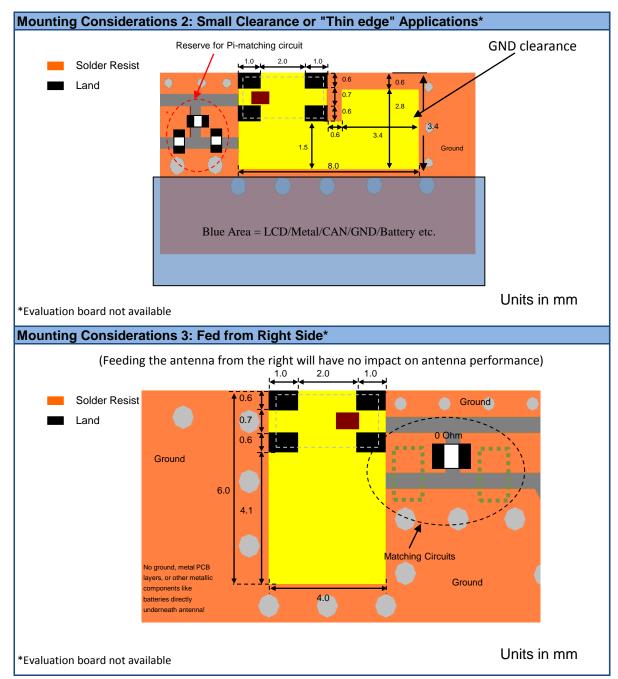
www.johansontechnology.com



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

2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design P/N 2450AT18D0100

Detail Specification: 5/11/2018 Page 5 of 6



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

2.45 GHz SMD Antenna, EIA 1210, Detuning resilient, Edge Mount Design

P/N 2450AT18D0100

Detail Specification: 5/11/2018 Page 6 of 6

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.

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

