7GHz Mini UWB Antenna, AEC-Q200 Qualified

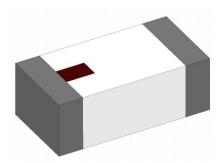
P/N 7000AT18A1600E-AEC

Detail Specification:

3/16/2018

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

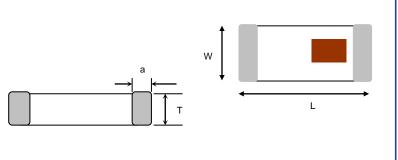
| General Specification | าร |
|------------------------------|--------------------|
| Part Number | 7000AT18A1600E-AEC |
| Frequency (GHz) | 6.2 - 7.8 |
| Avg. Rad Efficiency | 84% |
| Peak Gain (dBi) | 3.8 |
| Average Gain (dBi) | -1.3 |
| Return Loss (dB) | 10 min. |



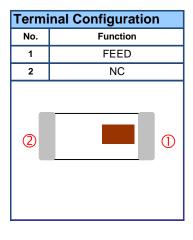
| Return Loss (dB) | 10 min. | Storage Period | 18 months max. |
|------------------|-------------------|-----------------------|----------------|
| Return Loss (ub) | TO IIIIII. | Storage Temperature | -40 to +105°C |
| Impedance | 50 Ω | Operating Temperature | -40 to +105°C |
| Input Power | 2 Watts max. (CW) | Reel Quantity | 3,000 |

| Part Numbe | r Explanation | | | |
|-------------------|-------------------------|--------------|-------------------|--------------------------------|
| | | Bulk (loose) | Suffix = S | e.g. 7000AT18A1600S-AEC |
| P/N Suffix | Packing Style | T&R | Suffix = E | e.g. 7000AT18A1600E-AEC |
| F/N Sullix | | 100% Tin | Suffix = E or S | e.g. 7000AT18A1600(E or S)-AEC |
| | Evaluation Board | 7000AT18A160 | 0-EB1SMA (see pag | ge 2&3 for details) |

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



Want the layout file? Request it 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.



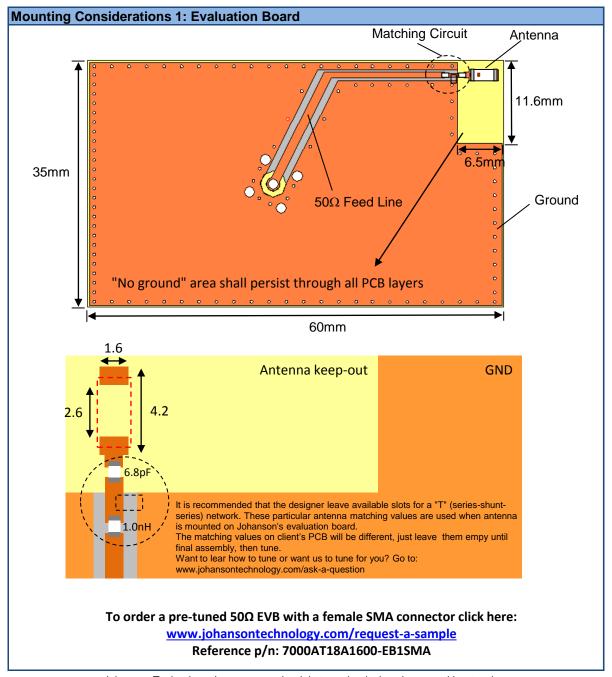
www.johansontechnology.com

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

7GHz Mini UWB Antenna, AEC-Q200 Qualified

P/N 7000AT18A1600E-AEC

Detail Specification: 3/16/2018 Page 2 of 5



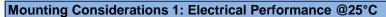
Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



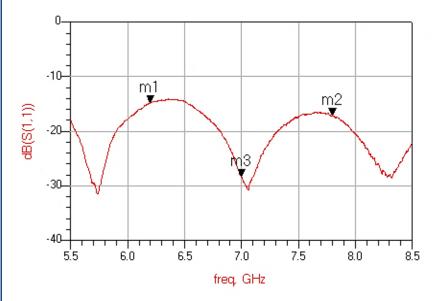
7GHz Mini UWB Antenna, AEC-Q200 Qualified

P/N 7000AT18A1600E-AEC

Detail Specification: 3/16/2018 Page 3 of 5



Measured Return Loss



m1 freg=6.200GHz dB(S(1,1))=-14.872

m2 freq=7.800GHz dB(S(1,1))=-17.097

m3 freq=7.000GHz dB(S(1,1))=-28.395

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

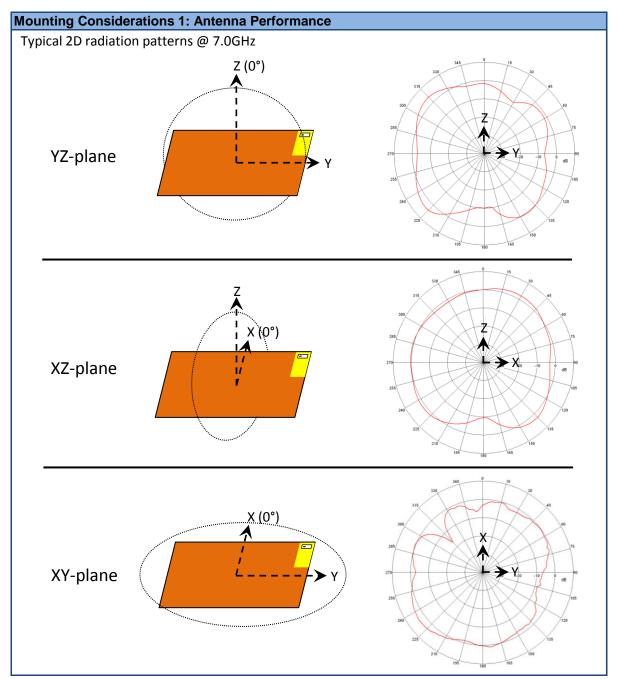
Johanson Technology, Inc. reserves the right to make design changes without notice. All sales are subject to Johanson Technology, Inc. terms and conditions.



7GHz Mini UWB Antenna, AEC-Q200 Qualified

P/N 7000AT18A1600E-AEC

Detail Specification: 3/16/2018 Page 4 of 5



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



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

JOHANSON TECHNOLOGY