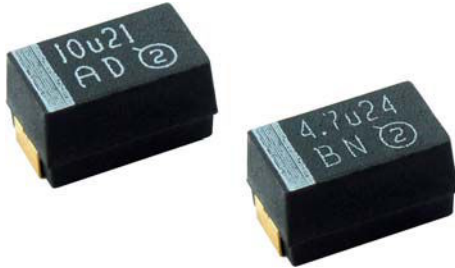


HI-TMP[®] Solid Tantalum Surface Mount TANTAMOUNT[®], Molded Case, - 55 °C to + 200 °C, Very High Temperature



FEATURES

- Application voltage: 21 V at + 200 °C
- Operating temperature up to + 200 °C
- 500 h continuous operation at V_R
- Gold plated terminations
- Standard EIA 535BAAC case size (E)
- 100 % surge current tested
- Compliant to RoHS Directive 2002/95/EC
- Moisture sensitivity level 1


**RoHS
COMPLIANT**

PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: - 55 °C to + 200 °C

Note

- Refer to doc. 40088

Capacitance Range: 10 μ F

Capacitance Tolerance: $\pm 10\%$, $\pm 20\%$
Voltage Rating: 21 V_{DC}

| ORDERING INFORMATION | | | | | | |
|----------------------|----------------------------------|--|----------------------------------|--|--|--|
| TH5 | E | 106 | K | 021 | B | 1000 |
| TYPE | CASE CODE | CAPACITANCE | CAPACITANCE TOLERANCE | APPLICATION VOLTAGE AT + 200 °C | TERMINATION/PACKAGING | ESR |
| | See Ratings and Case Codes table | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | K = $\pm 10\%$ M = $\pm 20\%$ | This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. | A = Gold/ 7" (178 mm) reels B = Gold/ 13" (330 mm), reels Other ⁽¹⁾ | Maximum 100 kHz ESR 0500 = 500 m Ω 5000 = 5 Ω 10R0 = 10.0 Ω |

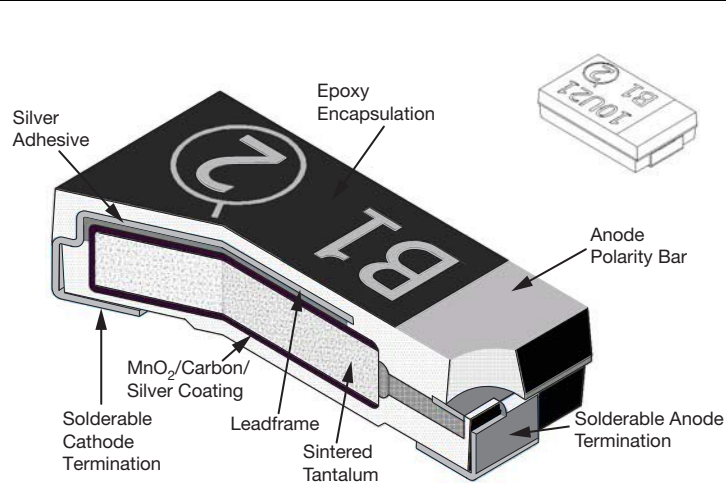
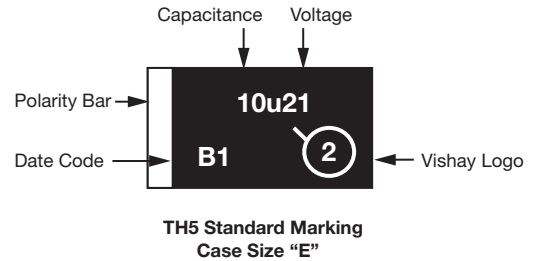
Note

- ⁽¹⁾ Other termination on request

| DIMENSIONS in inches [millimeters] | | | | | | | |
|------------------------------------|----------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------|
| | | | | | | | |
| CASE CODE | EIA SIZE | L | W | H | P | T_w | T_H (MIN.) |
| E | 7343-43 | 0.287 \pm 0.012 [7.3 \pm 0.30] | 0.170 \pm 0.012 [4.3 \pm 0.30] | 0.158 \pm 0.012 [4.0 \pm 0.30] | 0.051 \pm 0.012 [1.3 \pm 0.30] | 0.095 \pm 0.004 [2.4 \pm 0.10] | 0.039 [1.0] |

Note

- TH5 series, 21 V capacitors have been designed for, and tested at, 21 V at + 200 °C for 500 h. As with all Tantalum capacitors, reliability and life may be extended by lower applied voltage.

CONSTRUCTION AND MARKING

Gold Termination

Marking:

Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating.

The Vishay Sprague® trademark is included if space permits. A manufacturing date code is marked on all capacitors. Call the factory for further explanation.

STANDARD RATINGS

| CAPACITANCE (μF) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE AT + 25 °C (μA) | TYPICAL DC LEAKAGE AT + 200 °C (μA) | MAX. DF AT + 25 °C (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz I_{RMS} (A) |
|----------------------------------|--------------|----------------------|---|---|------------------------------|---|--|
| 21 V _{DC} AT + 200 °C | | | | | | | |
| 10 | E | TH5E106(1)021(2)1000 | 2.1 | 120 | 6 | 1.000 | 0.41 |

Note

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging: A, B

Note

- TH5 series, 21 V capacitors have been designed for, and tested at, 21 V at + 200 °C for 500 h. As with all Tantalum capacitors, reliability and life may be extended by lower applied voltage.



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