

HI-TMP[®] Solid Tantalum Surface-Mount Capacitors, TANTAMOUNT[®] Molded Case, - 55 °C to + 175 °C



KEY BENEFITS

- Operating temperature up to 175 °C with 50 % voltage derating
- Automotive grade: AEC-Q200 qualified
- High reliability and robust
- 100 % surge current tested
- Standard EIA 535BAAC case sizes (B, C, and D)
- SnPb, 100 % tin, solder plated, and gold-plated terminations available
- RoHS-compliant terminations available

APPLICATIONS

- Automotive
- Harsh environments
- Oil exploration and drilling systems
- Control and sensing systems
- Safety critical industrial tools and products
- High-temperature extended activity
- High-temperature engines
- Electronic sensors

RESOURCES

- Datasheet: TH4 - <http://www.vishay.com/doc?40152>
- Tantalum product portfolio: <http://www.vishay.com/capacitors/tantalum/>
- Reliability calculator: <http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-wet/tantalum-reliability-calculator-list/>
- For technical questions, contact: tantalum@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>
- Material categorization: For definition of compliance please see: <http://www.vishay.com/doc?99912>



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Capacitors - High Temperature up to 175 °C

ORDERING INFORMATION						
TH4	C	226	K	016	C	1000
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND 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 = ± 10 % M = ± 20 %	This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V)	C: Matte tin/7" (178 mm) reels D: Matte tin/13" (330 mm) reels	Maximum 100 kHz ESR 0500 = 500 mΩ 5000 = 5.0 Ω 10R0 = 10.0 Ω	

Note

- We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating.

DIMENSIONS in inches [millimeters]							
CASE CODE	EIA SIZE	L	W	H	P	Tw	TH (MIN.)
B	3528-21	0.138 ± 0.008 [3.5 ± 0.20]	0.110 ± 0.008 [2.8 ± 0.20]	0.075 ± 0.008 [1.9 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.028 [0.70]
C	6032-28	0.236 ± 0.012 [6.0 ± 0.30]	0.126 ± 0.012 [3.2 ± 0.30]	0.098 ± 0.012 [2.5 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.039 [1.0]
D	7343-31	0.287 ± 0.012 [7.3 ± 0.30]	0.169 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

RATINGS AND CASE CODES			
µF	6.3 V	10 V	16 V
10	B (1.8)	B (1.8)	B (2.0)
22	B (1.5)	B (1.6) C (1.4)	B (1.9) C (1.4, 1.0) D (0.8, 0.6)
47	C (0.8)	C (0.5)	C (0.8) D (0.4, 0.7)

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