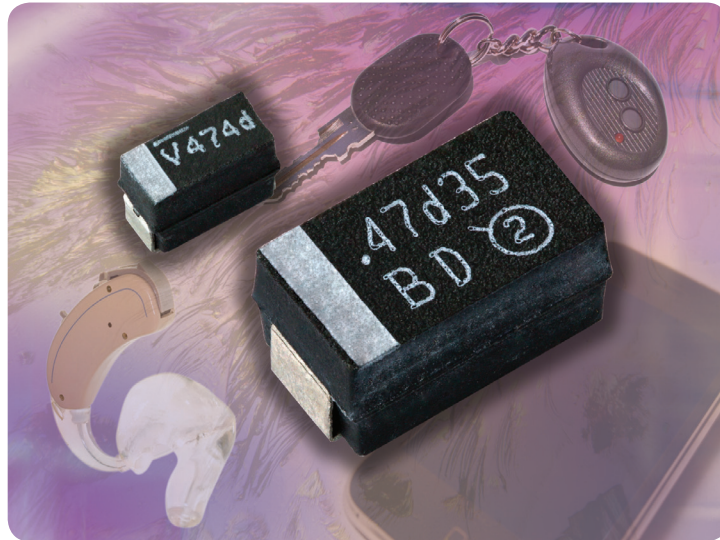


Solid Tantalum Surface-Mount Capacitors TANTAMOUNT[®], Molded Case, Very Low DCL



RoHS*
COMPLIANT
HALOGEN
FREE
Available

KEY BENEFITS

- DC leakage at 0.005 CV
- Standard and low ESR options
- Thermal shock
- 100 % surge current tested (B,C, D, and E case sizes)
- Improved reliability of 0.5 % / 1000 hours
- Redundant tests on all cases
- Automotive grade available
- Voltage rating of 4 V to 50 V
- Capacitance values of 0.1 μ F to 470 μ F
- Capacitance Tolerance: $\pm 10 \%$, $\pm 20 \%$
- Halogen-free
- Operating temperature range of - 55 °C to + 125 °C
- Terminations: 100 % matte tin and tin/lead
- Standard EIA 535BAAC case sizes (A through E)
- Compliant to RoHS Directive 2011/65/EU
- Moisture sensitivity level 1

APPLICATIONS

- Battery-operated equipment
- Portable instrumentation
- Tire pressure monitoring systems
- Medical instruments
- Local power supplies
- Handheld instruments
- Battery backup supplies

RESOURCES

- Datasheet: TL3 - <http://www.vishay.com/doc?40154>
- For technical questions contact tantalum@vishay.com

Note

* Pb containing terminations are not RoHS compliant, exemptions may apply

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



Capacitors - Very Low DC Leakage of 0.005 CV

Solid Tantalum Surface Mount Capacitors TANTAMOUNT[®], Molded Case, Very Low DCL

PERFORMANCE/ELECTRICAL CHARACTERISTICS

www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 125 °C
(above 85 °C voltage derating is required)

Capacitance Range: 0.1 µF to 470 µF

Capacitance Tolerance: ± 10 %, ± 20 %

Voltage Rating: 4 V to 50 V

TL3	D	107	K	010	C	0100
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 significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in volts. 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 E = Tin/lead/7" (178 mm) reels F = Tin/lead/13" (330 mm) reels	Maximum 100 kHz ESR in mΩ. See note below.

Notes

- 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.
- The EIA and CECC standards for low ESR solid tantalum chip capacitors, allow delta ESR of 1.25 times the datasheet limit after mounting.
- Dry pack is available per request, contact regional marketing.

DIMENSIONS in inches [millimeters]							
CASE CODE	EIA SIZE	L	W	H	P	T _W	T _H (MIN.)
A	3216-18	0.126 ± 0.008 [3.2 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.047 ± 0.004 [1.2 ± 0.10]	0.028 [0.70]
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]
E	7343-43	0.287 ± 0.012 [7.3 ± 0.30]	0.169 ± 0.012 [4.3 ± 0.30]	0.157 ± 0.012 [4.0 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

MARKING																			
<p>Indicates Very Low DCL Series</p> <p>Capacitance Code, pF</p> <p>V 104D</p> <p>Polarity Band (+)</p> <p>Voltage Code</p> <p>A Case</p>	"A" CASE VOLTAGE CODE		<p>Indicates Very Low DCL Series</p> <p>Capacitance µF</p> <p>Voltage</p> <p>Polarity Band (+)</p> <p>22 D10</p> <p>XX ②</p> <p>Date Code</p> <p>Vishay Sprague Logo</p> <p>B, C, D, E Cases</p>																
	<table border="1"> <thead> <tr> <th>VOLTS</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>4.0</td><td>G</td></tr> <tr><td>6.3</td><td>J</td></tr> <tr><td>10</td><td>A</td></tr> <tr><td>16</td><td>C</td></tr> <tr><td>20</td><td>D</td></tr> <tr><td>25</td><td>E</td></tr> <tr><td>35</td><td>V</td></tr> <tr><td>50</td><td>T</td></tr> </tbody> </table>	VOLTS		CODE	4.0	G	6.3	J	10	A	16	C	20	D	25	E	35	V	50
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Marking Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating. "A" case capacitors use a letter code for the voltage and EIA capacitance code. The Vishay Sprague [®] trademark is included if space permits. Capacitors rated at 6.3 V are marked 6 V. A manufacturing date code is marked on all capacitors. Call the factory for further explanation.																			

Revision 01 - Feb-12

Capacitors - Very Low DC Leakage of 0.005 CV