



TANTALUM CAPACITORS

TM3

Capacitors - For Non-Life Support Medical Applications

Solid Tantalum Surface-Mount Chip Capacitors TANTAMOUNT®, Molded Case, for Medical Instruments



KEY BENEFITS

- For non-life support medical applications
- High reliability
- Weibull grading options
- 100 % surge current tested (B, C, D, E cases)
- Terminations: 100 % matte tin and tin/lead
- Standard EIA 535BAAC case sizes (A through E)
- Manufacturing location is certified to medical standard ISO 13485
- Compliant terminations
- Mounting: surface-mount
- Dry pack as per IPC/JEDEC J-STD-033 standard

APPLICATIONS

- Portable battery powered products in home medical products
- Blood glucose monitors and meters, infusion pumps, body worn devices, childbirth monitoring, body temperature monitoring, nebulizer, thermometer

RESOURCES

- Datasheet: TM3 - www.vishay.com/doc?40166
- For technical questions contact tantalum@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>



RoHS
COMPLIANT

HALOGEN
FREE

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



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PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: -55 °C to +125 °C
 (above 85 °C, voltage derating is required)
Capacitance Range: 1 μF to 220 μF
Capacitance Tolerance: ± 10 %, ± 20 % standard
Voltage Rating: 4 V_{DC} to 20 V_{DC}

ORDERING INFORMATION							
TM3	C	226	K	6R3	C	B	A
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT +85 °C	TERMINATION AND PACKAGING	RELIABILITY LEVEL	SURGE CURRENT
	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 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) reel H: Matte tin/ 7" (178 mm) ½ reel E: Tin/lead/ 7" (178 mm) reel L: Tin/lead/ 7" (178 mm) ½ reel	B = 0.1 % Weibull FRL S = Hi-Rel std. (40 h burn-in) Z = Non-established reliability	A = 10 cycles at +25 °C, 1.1 RV Z = No surge (for A case only)

DIMENSIONS in inches (millimeters)							
CASE CODE	EIA SIZE	L	W	H	P	Tw	Th (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]

Note

- Glue pad (non-conductive, part of molded case) is dedicated for glue attachment (as user option).

MARKING			
<p>A Case</p>	"A" CASE VOLTAGE CODE		<p>B, C, D, E Cases</p>
	VOLTS	CODE	
	4.0	G	
	6.3	J	
	10	A	
	16	C	
	20	D	
25	E		
35	V		
50	T		

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.

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