

## Surface-Mount Solid Tantalum Capacitors



Conformal-Coated Capacitors

Molded Capacitors

Molded, Lead-Frameless Capacitors

### RESOURCES:

- Tantalum capacitors portfolio: <http://www.vishay.com/capacitors/tantalum/>
- FIT calculator: <http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-wet/tantalum-reliability-calculator-list/>
- Technical support: [tantalum@vishay.com](mailto:tantalum@vishay.com)
- Sales contacts: <http://www.vishay.com/doc?99914>

### Commercial Series

Series	Capacitance Range	Voltage Range	Case Size	Features	
<b>Molded Package</b>					
<a href="#">293D</a>	0.10 $\mu$ F to 1000 $\mu$ F	4 V to 63 V	A, B, C, D, E, V	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Standard industrial grade</li> </ul>	
<a href="#">TH3 Hi-TMP®</a>	0.33 $\mu$ F to 220 $\mu$ F	6.3 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>High temperature, +150 °C</li> <li>AEC-Q200 qualified</li> </ul>	
<a href="#">TH4 Hi-TMP®</a>	10 $\mu$ F to 47 $\mu$ F	6.3 V to 16 V	B, C	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>High temperature, +175 °C</li> <li>AEC-Q200 qualified</li> </ul>	
<a href="#">TH5 Hi-TMP®</a>	4.7 $\mu$ F and 10 $\mu$ F	21 V and 24 V	E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>High temperature, +200 °C</li> </ul>	
<a href="#">TP3</a>	0.10 $\mu$ F to 470 $\mu$ F	4 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>High performance</li> <li>AEC-Q200 qualified</li> </ul>	
<a href="#">TR3</a>	0.47 $\mu$ F to 1000 $\mu$ F	4 V to 63 V	A, B, C, D, E, V, W	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Low ESR</li> </ul>	
<a href="#">TL3</a>	0.1 $\mu$ F to 470 $\mu$ F	4 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Very low DCL (0.005 CV)</li> <li>Low ESR</li> </ul>	
<b>Molded Lead-Frameless Package</b>					
<a href="#">298D</a>	1.0 $\mu$ F to 330 $\mu$ F	2.5 V to 50 V	K, M, R, P, Q, A, B	<ul style="list-style-type: none"> <li>General purpose MicroTAN®</li> <li>Variety of case sizes from 1005 to 3528</li> </ul>	
<a href="#">298W</a>	10 $\mu$ F to 220 $\mu$ F	4.0 V to 10 V	K, M, Q	<ul style="list-style-type: none"> <li>Extended range MicroTAN®</li> <li>Maximum capacitance density</li> </ul>	
<a href="#">TR8</a>	1.0 $\mu$ F to 220 $\mu$ F	4 V to 16 V	M, P	<ul style="list-style-type: none"> <li>Low ESR MicroTAN®</li> <li>1608 and 2012 sizes</li> </ul>	
<a href="#">TP8</a>	1 $\mu$ F to 100 $\mu$ F	6.3 V to 40 V	M, W, R, P, A, B	<ul style="list-style-type: none"> <li>Automotive Grade MicroTAN®</li> <li>Small sizes for space-constrained applications</li> <li>High reliability solid surface-mount tantalum capacitors</li> </ul>	
<a href="#">TL8</a>	3.3 $\mu$ F to 220 $\mu$ F	4.0 V to 35 V	W0, W9, A0, B0	<ul style="list-style-type: none"> <li>Low profile MicroTAN®</li> <li>Ultra low profile: 0.8 mm to 1.0 mm in a variety of case sizes</li> <li>Highest capacitance-voltage product in industry</li> </ul>	
<b>Conformal Coated Package</b>					
<a href="#">591D</a>	1.0 $\mu$ F to 1500 $\mu$ F	4 V to 35 V	A, B, C, D, R	<ul style="list-style-type: none"> <li>Low ESR / low profile TANTAMOUNT™</li> <li>Maximum CV</li> </ul>	
<a href="#">592D</a>	1.0 $\mu$ F to 2200 $\mu$ F	4 V to 50 V	A, B, C, D, M, R, S, X	<ul style="list-style-type: none"> <li>Low profile TANTAMOUNT™</li> <li>Maximum CV</li> </ul>	
<a href="#">594D</a>	1.0 $\mu$ F to 1500 $\mu$ F	4 V to 50 V	B, C, D, R	<ul style="list-style-type: none"> <li>Low ESR TANTAMOUNT™</li> <li>Maximum CV</li> </ul>	
<a href="#">595D</a>	0.10 $\mu$ F to 1500 $\mu$ F	4 V to 50 V	A, B, C, D, G, H, M, R, S, T	<ul style="list-style-type: none"> <li>General purpose TANTAMOUNT™</li> <li>Maximum CV</li> </ul>	
<a href="#">597D</a>	10 $\mu$ F to 1500 $\mu$ F	4 V to 75 V	D, E, F, H, M, N, R, V, Z	<ul style="list-style-type: none"> <li>Ultra low ESR TANTAMOUNT™</li> <li>Maximum CV</li> <li>High voltage, high capacitance</li> </ul>	

### High Reliability Series

Series	Capacitance Range	Voltage Range	Case Size	Features	
<b>Molded Package</b>					
<a href="#">793DX</a>	0.10 $\mu$ F to 100 $\mu$ F	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>CECC 30 801 005 approved</li> </ul>	
<a href="#">CTC3</a>	0.10 $\mu$ F to 100 $\mu$ F	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>CECC 30 801 009 approved</li> </ul>	
<a href="#">CTC4</a>	0.10 $\mu$ F to 100 $\mu$ F	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>CECC 30 801 011 approved</li> </ul>	
<a href="#">CWR11</a>	0.10 $\mu$ F to 100 $\mu$ F	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>MIL-PRF-55365 qualified</li> <li>Space level option available</li> </ul>	
<a href="#">DSCC 95158</a>	4.7 $\mu$ F to 220 $\mu$ F	6.3 V to 50 V	C, D, E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Low ESR</li> <li>DSCC approved</li> </ul>	
<a href="#">T83</a>	0.10 $\mu$ F to 470 $\mu$ F	4 V to 63 V	A, B, C, D, E	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Hi-Rel COTS</li> <li>Weibull grade and surge current options</li> </ul>	
<b>Molded Lead-Frameless Package</b>					
<a href="#">TM8</a>	1.0 $\mu$ F to 47 $\mu$ F	2 V to 40 V	K, A, M, N, P, R, T, W	<ul style="list-style-type: none"> <li>High reliability MICROTAN®</li> <li>Low DCL for long battery life</li> <li>Reliability and surge current screening options</li> </ul>	
<b>Conformal Coated Package</b>					
<a href="#">194D</a>	0.10 $\mu$ F to 330 $\mu$ F	4 V to 50 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> </ul>	
<a href="#">CWR06</a>	0.10 $\mu$ F to 100 $\mu$ F	4 V to 50 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>MIL-PRF-55365 qualified</li> </ul>	
<a href="#">CWR16</a>	0.33 $\mu$ F to 330 $\mu$ F	4 V to 35 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Extended range</li> <li>MIL-PRF-55365 qualified</li> </ul>	
<a href="#">CWR26</a>	10.0 $\mu$ F to 100 $\mu$ F	10 V to 35 V	F, G, H	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>MIL-PRF-55365 qualified</li> <li>Low ESR</li> </ul>	
<a href="#">T95</a>	0.15 $\mu$ F to 680 $\mu$ F	4 V to 50 V	A, B, C, D, R, S, T, V, X, Y, Z	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Hi-Rel COTS</li> </ul>	
<a href="#">T96</a>	10 $\mu$ F to 680 $\mu$ F	4 V to 50 V	R	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Built-in fuse</li> <li>Hi-Rel COTS</li> </ul>	
<a href="#">T97</a>	10 $\mu$ F to 1500 $\mu$ F	4 V to 75 V	D, E, F, H, M, N, R, V, Z	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Ultra low ESR</li> <li>Hi-Rel COTS</li> </ul>	
<a href="#">T98</a>	15 $\mu$ F to 1500 $\mu$ F	4 V to 63 V	E, F, H, M, R, V, Z	<ul style="list-style-type: none"> <li>TANTAMOUNT™</li> <li>Low ESR</li> <li>Built-in fuse</li> <li>Hi-Rel COTS</li> </ul>	



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