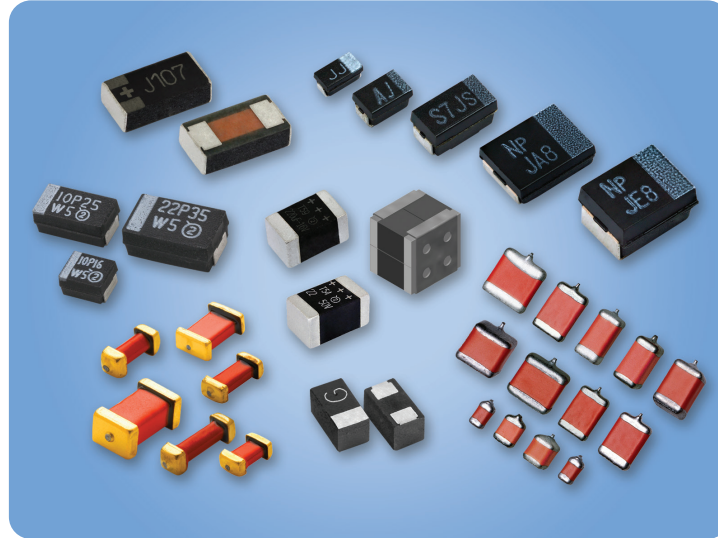




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Surface-Mount Solid Tantalum Capacitors



Conformal-Coated Capacitors

Molded Capacitors (MnO₂ and Conductive Polymer)

Molded, Lead-Frameless Capacitors (MnO₂ and Conductive Polymer)

Hermetically Sealed Capacitors (Conductive Polymer)

RESOURCES:

- Tantalum capacitors portfolio: www.vishay.com/capacitors/tantalum/
- FIT calculator: www.vishay.com/dt/capacitors/tantalum-reliability-calculator-list/
- 3D models: www.vishay.com/capacitors/tantalum/tab/designtools/
- Technical support: tantalum@vishay.com
- Sales contacts: www.vishay.com/doc?99914



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Commercial Series With MnO₂ Solid Electrolyte

Series	Capacitance Range	Voltage Range	Case Size	Features	
Molded Package					
293D	0.1 µF to 1000 µF	4 V to 75 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ Standard industrial grade 	
593D	0.47 µF to 680 µF	4 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ Standard industrial grade Low ESR 	
TH3 Hi-TMP®	0.33 µF to 220 µF	6.3 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ High temperature, +150 °C AEC-Q200 qualified 	
TH4 Hi-TMP®	4.7 µF to 100 µF	6.3 V to 50 V	B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ High temperature, +175 °C AEC-Q200 qualified 	
TH5 Hi-TMP®	4.7 µF and 100 µF	5 V to 24 V	D, E	<ul style="list-style-type: none"> TANTAMOUNT™ High temperature, +200 °C 	
TP3	0.1 µF to 470 µF	4 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ High performance AEC-Q200 qualified 	
TR3	0.15 µF to 1000 µF	4 V to 75 V	A, B, C, D, E, W	<ul style="list-style-type: none"> TANTAMOUNT™ Low ESR 	
TL3	0.1 µF to 470 µF	4 V to 50 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ Very low DCL (0.005 CV) Low ESR 	
TX3	10 µF to 100 µF	16 V to 25 V	B, C	<ul style="list-style-type: none"> TANTAMOUNT™ Very low DCL (0.005 CV) For e-detonators application 	
TMCM	0.47 µF to 470 µF	2.5 V to 35 V	A, B, C, E	<ul style="list-style-type: none"> Standard industrial grade Extended range 	
TMCJ	0.68 µF to 22 µF	2.5 V to 20 V	J	<ul style="list-style-type: none"> Standard industrial grade 0603 case size 	
TMCP	0.1 µF to 47 µF	2.5 V to 25 V	P	<ul style="list-style-type: none"> Standard industrial grade 0805 case size 	
TMCR	10 µF to 330 µF	7 V to 35 V	B, C, E	<ul style="list-style-type: none"> Standard industrial grade Low ESR 	
TMCS	0.1 µF to 68 µF	4 V to 35 V	A, B, C, E	<ul style="list-style-type: none"> Standard industrial grade 	
TMCTX	1 µF to 68 µF	10 V to 35 V	B, C, E, F	<ul style="list-style-type: none"> Standard industrial grade Built-in fuse 	
TMCU	0.1 µF to 220 µF	2.5 V to 35 V	UA, UB	<ul style="list-style-type: none"> Standard industrial grade Low profile 	
793DX	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> TANTAMOUNT™ CECC 30 801 005 approved 	
CTC3	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> TANTAMOUNT™ CECC 30 801 009 approved 	
CTC4	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> TANTAMOUNT™ CECC 30 801 011 approved 	



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CAPACITORS

Tantalum

Series	Capacitance Range	Voltage Range	Case Size	Features	
Molded Lead-Frameless Package					
298D	0.33 μ F to 220 μ F	2.5 V to 50 V	A, K, M, P, Q, R, S	<ul style="list-style-type: none"> General-purpose MICROTAN® Variety of case sizes from 0402 to 1206 	
298W	2.2 μ F to 220 μ F	4.0 V to 16 V	K, M, Q	<ul style="list-style-type: none"> Extended range MICROTAN® Maximum capacitance density 	
TR8	1 μ F to 220 μ F	2.5 V to 25 V	M, P, R, Q, A	<ul style="list-style-type: none"> Low ESR MICROTAN® 0603 to 1206 sizes 	
TP8	1 μ F to 100 μ F	6.3 V to 40 V	M, W, R, P, A, B, N, T	<ul style="list-style-type: none"> Vishay Automotive Grade MICROTAN® Small sizes for space-constrained applications 	
TL8	0.68 μ F to 220 μ F	4.0 V to 25 V	W9, A0, B0	<ul style="list-style-type: none"> Low profile MICROTAN® Ultra low profile: 0.8 mm to 1.0 mm in a variety of case sizes Highest capacitance-voltage product in industry 	
Conformal-Coated Package					
194D	0.1 μ F to 330 μ F	4 V to 50 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> TANTAMOUNT™ 	
195D	0.1 μ F to 330 μ F	2 V to 50 V	A, B, C, D, E, F, G, H, R, V, X, Y, Z	<ul style="list-style-type: none"> TANTAMOUNT™ High performance 	
591D	1 μ F to 1500 μ F	4 V to 35 V	A, B, C, D, R	<ul style="list-style-type: none"> Low ESR / low profile TANTAMOUNT™ Maximum CV 	
592D	1 μ F to 2200 μ F	4 V to 50 V	A, B, C, D, M, R, S, X	<ul style="list-style-type: none"> Low profile TANTAMOUNT™ Maximum CV 	
592W	330 μ F to 2200 μ F	6.3 V to 10 V	C, M, X	<ul style="list-style-type: none"> Low profile TANTAMOUNT™ Maximum CV fro wireless modems 	
594D	1 μ F to 1500 μ F	4 V to 50 V	B, C, D, R	<ul style="list-style-type: none"> Low ESR TANTAMOUNT™ Maximum CV 	
595D	0.1 μ F to 1500 μ F	4 V to 50 V	A, B, C, D, G, H, M, R, S, T	<ul style="list-style-type: none"> General-purpose TANTAMOUNT™ Maximum CV 	
597D	10 μ F to 2200 μ F	4 V to 75 V	D, E, F, H, M, R, V, Z	<ul style="list-style-type: none"> Ultra low ESR TANTAMOUNT™ Maximum CV High voltage, high capacitance 	
695D	0.1 μ F to 270 μ F	4 V to 50 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> TANTAMOUNT™ High performance 	



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High Reliability Series With MnO₂ Solid Electrolyte

Series	Capacitance Range	Voltage Range	Case Size	Features	
Molded Package					
CWR11	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	<ul style="list-style-type: none"> TANTAMOUNT™ MIL-PRF-55365 qualified Space-level option available 	
DLA 95158	4.7 µF to 220 µF	6.3 V to 50 V	C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ Low ESR DLA-approved 	
T83	0.1 µF to 470 µF	4 V to 63 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ Hi-Rel COTS Weibull grade and surge current options 	
TM3	1 µF to 220 µF	4 V to 20 V	A, B, C, D, E	<ul style="list-style-type: none"> TANTAMOUNT™ For medical instruments Weibull grade and surge current options 	
TMCH	0.1 µF to 100 µF	4 V to 35 V	A, B, C, E, P	<ul style="list-style-type: none"> High reliability Offers 0805 case size 	
THC	0.33 µF to 47 µF	10 V to 35 V	A, B, C, E	<ul style="list-style-type: none"> High reliability High temperature, +150 °C 	
Molded Lead-Frameless Package					
TM8	0.33 µF to 47 µF	2 V to 40 V	A, G, K, M, N, P, R, T, W	<ul style="list-style-type: none"> High reliability MicroTAN® Low DCL for long battery life Reliability and surge current screening options 	
DLA 11020	1 µF to 47 µF	6.3 V to 40 V	A, M, N, P, R, T, W	<ul style="list-style-type: none"> High reliability MicroTAN® DLA-approved Reliability and surge current screening options 	
Conformal-Coated Package					
CWR06	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> TANTAMOUNT™ MIL-PRF-55365 qualified 	
CWR16	0.33 µF to 330 µF	4 V to 35 V	A, B, C, D, E, F, G, H	<ul style="list-style-type: none"> TANTAMOUNT™ Extended range MIL-PRF-55365 qualified 	
CWR26	10 µF to 100 µF	15 V to 35 V	F, G, H	<ul style="list-style-type: none"> TANTAMOUNT™ MIL-PRF-55365 qualified Low ESR 	
DLA 13008	10 µF to 1500 µF	4 V to 63 V	D, E, F, H, M, N, R, V, Z	<ul style="list-style-type: none"> TANTAMOUNT™ Ultra low ESR DLA-approved 	
DLA 14002	4.7 µF to 680 µF	4 V to 50 V	B, C, D, R	<ul style="list-style-type: none"> TANTAMOUNT™ Low ESR Hi-Rel COTS 	
T95	0.15 µF to 680 µF	4 V to 50 V	A, B, C, D, R, S, T, V, X, Y, Z	<ul style="list-style-type: none"> TANTAMOUNT™ Hi-Rel COTS 	
T96	10 µF to 680 µF	4 V to 50 V	R	<ul style="list-style-type: none"> TANTAMOUNT™ Built-in fuse Hi-Rel COTS 	
T97	10 µF to 2200 µF	4 V to 75 V	D, E, F, H, M, N, R, V, Z	<ul style="list-style-type: none"> TANTAMOUNT™ Ultra low ESR Hi-Rel COTS 	
T98	10 µF to 1500 µF	4 V to 63 V	E, F, H, M, R, V, Z	<ul style="list-style-type: none"> TANTAMOUNT™ Low ESR Built-in fuse Hi-Rel COTS 	



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Capacitors With Conductive Polymer, Commercial and High Reliability Series

Series	Capacitance Range	Voltage Range	Case Size	Features	
Molded Package					
T50	10 µF to 330 µF	2.5 V to 35 V	D	<ul style="list-style-type: none"> vPolyTan™ High performance type 	
T51	6.8 µF to 330 µF	2.5 V to 35 V	D, V	<ul style="list-style-type: none"> vPolyTan™ Vishay Automotive Grade  Low ESR 	
T55	3.3 µF to 1000 µF	2.5 V to 63 V	A, B, C, D, J, P, T, V, Z	<ul style="list-style-type: none"> vPolyTan™ High performance type Ultra low ESR 	
T56	10 µF to 470 µF	2.5 V to 50 V	B, D, V	<ul style="list-style-type: none"> vPolyTan™ High reliability COTS Ultra low ESR 	
Molded Lead-Frameless Package					
T52	47 µF to 470 µF	10 V to 35 V	E5, M1, M5	<ul style="list-style-type: none"> vPolyTan™ Low profile Ultra low ESR 	
T58	1 µF to 330 µF	6.3 V to 35 V	A0, AA, B0, BB, MM, W0, W9	<ul style="list-style-type: none"> vPolyTan™ Compact size 	
T59	15 µF to 470 µF	16 V to 75 V	EE	<ul style="list-style-type: none"> vPolyTan™ Low ESR 	
T54	15 µF to 2800 µF	16 V to 75 V	E2, E3, E4, E6, EE	<ul style="list-style-type: none"> vPolyTan™ High reliability COTS Ultra low ESR Stack configuration available 	
DLA 20021	15 µF to 470 µF	16 V to 63 V	EE	<ul style="list-style-type: none"> vPolyTan™ Low ESR DLA-approved 	
Hermetically Sealed Metal Case Package					
T27	15 µF to 470 µF	16 V to 75 V	D	<ul style="list-style-type: none"> vPolyTan™ Ultra low ESR Low DCL 	