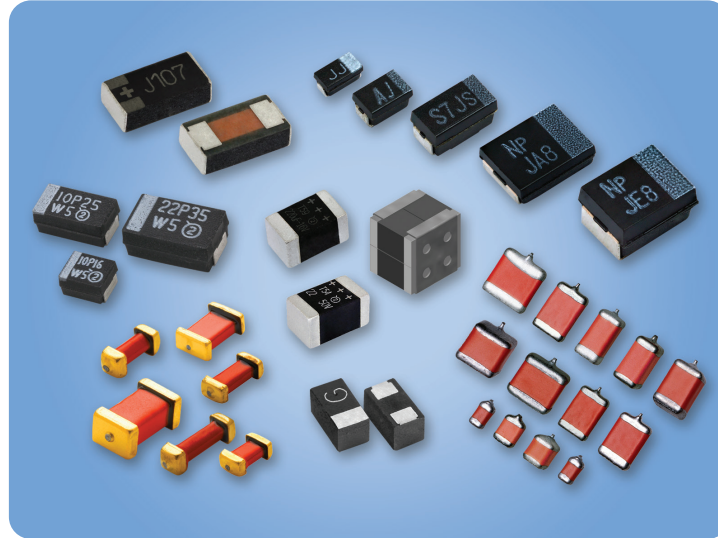




The DNA of tech.™

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	- TANTAMOUNT™ - Standard industrial grade	
593D	0.47 µF to 680 µF	4 V to 50 V	A, B, C, D, E	- 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	- 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	- TANTAMOUNT™ - High temperature, +175 °C - AEC-Q200 qualified 	
TH5 Hi-TMP®	4.7 µF and 100 µF	5 V to 24 V	D, E	- TANTAMOUNT™ - High temperature, +200 °C	
TP3	0.1 µF to 470 µF	4 V to 50 V	A, B, C, D, E	- TANTAMOUNT™ - High performance - AEC-Q200 qualified 	
TR3	0.15 µF to 1000 µF	4 V to 75 V	A, B, C, D, E, W	- TANTAMOUNT™ - Low ESR	
TL3	0.1 µF to 470 µF	4 V to 50 V	A, B, C, D, E	- TANTAMOUNT™ - Very low DCL (0.005 CV) - Low ESR	
TMCM	0.47 µF to 470 µF	2.5 V to 35 V	A, B, C, E	- Standard industrial grade - Extended range	
TMCJ	0.68 µF to 22 µF	2.5 V to 20 V	J	- Standard industrial grade 0603 case size	
TMCP	0.1 µF to 47 µF	2.5 V to 25 V	P	- Standard industrial grade 0805 case size	
TMCR	10 µF to 330 µF	7 V to 35 V	B, C, E	- Standard industrial grade - Low ESR	
TMCS	0.1 µF to 68 µF	4 V to 35 V	A, B, C, E	Standard industrial grade	
TMCTX	1 µF to 68 µF	10 V to 35 V	B, C, E, F	- Standard industrial grade - Built-in fuse	
TMCU	0.1 µF to 220 µF	2.5 V to 35 V	UA, UB	- Standard industrial grade - Low profile	
793DX	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	- TANTAMOUNT™ - CECC 30 801 005 approved	
CTC3	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	- TANTAMOUNT™ - CECC 30 801 009 approved	
CTC4	0.1 µF to 100 µF	4 V to 50 V	A, B, C, D	- TANTAMOUNT™ - CECC 30 801 011 approved	



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CAPACITORS

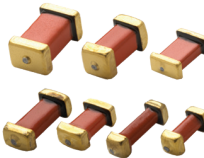
Tantalum

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	- 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	- 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	- 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	- 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	- 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	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	- TANTAMOUNT™ - High performance	
591D	1 μ F to 1500 μ F	4 V to 35 V	A, B, C, D, R	- 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	- Low profile TANTAMOUNT™ - Maximum CV	
592W	330 μ F to 2200 μ F	6.3 V to 10 V	C, M, X	- 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	- 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	- 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	- 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	- 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	- 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	- TANTAMOUNT™ - Low ESR - DLA-approved	
T83	0.1 μF to 470 μF	4 V to 63 V	A, B, C, D, E	- 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	- 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	- High reliability - Offers 0805 case size	
THC	0.33 μF to 47 μF	10 V to 35 V	A, B, C, E	- 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	- 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	- 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	- 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	- TANTAMOUNT™ - Extended range - MIL-PRF-55365 qualified	
CWR26	10 μF to 100 μF	15 V to 35 V	F, G, H	- 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	- TANTAMOUNT™ - Ultra low ESR - DLA-approved	
DLA 14002	4.7 μF to 680 μF	4 V to 50 V	B, C, D, R	- 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	- TANTAMOUNT™ - Hi-Rel COTS	
T96	10 μF to 680 μF	4 V to 50 V	R	- 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	- 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	- TANTAMOUNT™ - Low ESR - Built-in fuse - Hi-Rel COTS	

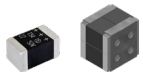


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CAPACITORS

Tantalum

Capacitors With Conductive Polymer, Commercial and High Reliability Series

Series	Capacitance Range	Voltage Range	Case Size	Features	
Molded Package					
T50	10 μ F to 330 μ F	2.5 V to 35 V	D	- vPolyTan™ - High performance type	
T55	3.3 μ F to 1000 μ F	2.5 V to 63 V	A, B, C, D, J, P, T, V, Z	- vPolyTan™ - High performance type - Ultra low ESR	
T56	10 μ F to 470 μ F	2.5 V to 50 V	B, D, V	- vPolyTan™ - High reliability COTS - Ultra low ESR	
Molded Lead-Frameless Package					
T52	47 μ F to 470 μ F	10 V to 35 V	E5, M1, M5	- vPolyTan™ - Low profile - Ultra low ESR	
T58	1 μ F to 330 μ F	6.3 V to 35 V	A0, AA, B0, BB, MM, W0, W9	- vPolyTan™ - Compact size	
T59	15 μ F to 470 μ F	16 V to 75 V	EE	- vPolyTan™ - Low ESR	
T54	15 μ F to 2800 μ F	16 V to 75 V	E2, E3, E4, E6, EE	- vPolyTan™ - High reliability COTS - Ultra low ESR - Stack configuration available	
DLA 20021	15 μ F to 470 μ F	16 V to 63 V	EE	- vPolyTan™ - Low ESR - DLA-approved	
Hermetically Sealed Metal Case Package					
T27	15 μ F to 470 μ F	16 V to 75 V	D	- vPolyTan™ - Ultra low ESR - Low DCL	