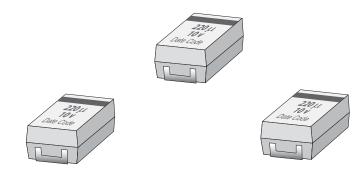
Standard and Extended Range



FEATURES

- Lead-free, RoHS compliant
- Meets or exceeds EIA 535 BAAC and IECQ standards (QC300801/US0001, IS 28)
- Capacitance range: 0.1 μf to 1500 μf
- Voltage range: 4 to 50 WVDC
- Down sized, extended range values
- Low profile sizes (see low profile section)
- Surge tested for maximum robustness
- Operating temperature range -55°C to +125°C, 2/3 x Vr (linear derating) above +85°C
- Precision molded case with flat surfaces for vacuum pick-up
- Laser marking and bold videcon readable polarity stripe
- Compliant terminations
- Glue pad on underside for bonding to circuit board prior to soldering
- Encapsulant material satisfies the UL 94 VO flammability classification
- Termination finish 90% Sn / 10% Pb available
- MSL (moisture sensitivity level) per IPC/Jedec J-STD-020B is level 1





PCT Standard and Extended Range Surface Mount Tantalum Capacitors

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Capacitance (μF)	Case Size	Nemco Part No.	DCL (μA) max.	tan δ max. (%)	ESR @ 100kHz max. (Ω)		Capacitance (μF)	Case Size	Nemco Part No.	DCL (μA) max.	tan δ max. (%)	ESR @ 100kHz max. (Ω)	
4 V DC	@ 8	5°C				10 V DC @ 85°C							
33.0 47.0 68.0 68.0 100.0 150.0 150.0 220.0 220.0 330.0 330.0 470.0 680.0 680.0 1000.0 1500.0	A A A B A B B C B C D C D D H D H D H H	PCT33 / 4A _ PCT47 / 4A _ PCT68 / 4A _ PCT68 / 4B _ PCT100 / 4A _ PCT150 / 4B _ PCT150 / 4B _ PCT220 / 4B _ PCT220 / 4C _ PCT220 / 4D _ PCT330 / 4C _ PCT330 / 4C _ PCT470 / 4D _ PCT470 / 4D _ PCT470 / 4H _ PCT680 / 4D _ PCT680 / 4D _ PCT1000 /4D _ PCT1000 /4H _ PCT1500 /4H _ PCT15000 /4H _ PCT150000 /4H _ PCT1500000 /4H _ PCT15000000000000000000000000000000000000	1.3 1.9 2.7 2.7 4.0 4.0 6.0 6.0 8.8 8.8 13.2 13.2 18.8 27.2 27.2 40.0 60.0	6 8 10 8 30 8 6 12 8 8 8 12 10 14 14 60 14 30	3.0 2.6 1.5 1.8 1.4 0.9 1.5 0.3 1.1 1.2 0.9 0.9 0.9 0.5 0.5 0.2 0.4 0.2		2.2 4.7 6.8 6.8 10.0 15.0 15.0 22.0 22.0 22.0 33.0 33.0 47.0 47.0 68.0 68.0 100.0 100.0 150.0 150.0 150.0 220.0 220.0 330.0 330.0 470.0	A A A B A B A B C A B C B C D B C D B C D C D H D H D H H	PCT2.2 / 10A _ PCT4.7 / 10A _ PCT6.8 / 10B _ PCT10 / 10A _ PCT15 / 10A _ PCT15 / 10A _ PCT15 / 10A _ PCT22 / 10A _ PCT22 / 10A _ PCT22 / 10A _ PCT33 / 10A _ PCT33 / 10A _ PCT33 / 10B _ PCT33 / 10C _ PCT37 / 10B _ PCT47 / 10B _ PCT47 / 10D _ PCT68 / 10D _ PCT68 / 10D _ PCT68 / 10D _ PCT68 / 10D _ PCT100 / 10D _ PCT100 / 10D _ PCT100 / 10D _ PCT150 / 10D _ PCT150 / 10D _ PCT150 / 10D _ PCT220 / 10D _ PCT220 / 10D _ PCT220 / 10D _ PCT230 / 10D _ PCT330 / 10H _ PCT470 /	0.5 0.5 0.7 0.7 1.0 1.5 1.5 2.2 2.2 2.2 3.3 3.3 4.7 4.7 4.7 6.8 6.8 6.8 10.0 15.0 15.0 15.0 22.0 22.0 33.0 33.0 33.0 47.0	6 6 6 6 6 6 6 8 6 6 8 6 6 6 6 6 8 8 6 8 8 8 8 8 8 8 10	7.0 5.0 4.0 3.0 2.5 3.2 2.8 3.0 2.4 1.8 1.7 1.8 1.6 1.0 1.2 0.9 1.4 1.3 0.9 1.4 1.2 0.9 0.9 0.9 0.9 0.5 0.5 0.5	
6.3 V D	6.3 V DC @ 85°C 16 V DC @ 85°C												
10.0 15.0 15.0 22.0 22.0 33.0 33.0 47.0 47.0 68.0 68.0 100.0 100.0 100.0 150.0 220.0 220.0 220.0 220.0 330.0 330.0 470.0 470.0 680.0	A A B A B A B C A B C B C D B C D C D C D H D H D H H Z	PCT10 / 6A _ PCT15 / 6A _ PCT15 / 6B _ PCT22 / 6A _ PCT22 / 6B _ PCT33 / 6A _ PCT33 / 6A _ PCT33 / 6C _ PCT47 / 6B _ PCT47 / 6B _ PCT47 / 6B _ PCT68 / 6B _ PCT68 / 6B _ PCT100 / 6B _ PCT100 / 6C _ PCT100 / 6C _ PCT100 / 6C _ PCT100 / 6C _ PCT150 / 6C _ PCT220 / 6C _ PCT220 / 6C _ PCT220 / 6B _ PCT330 / 6D _ PCT330 / 6D _ PCT330 / 6B _ PCT470 / 6D _ PCT330 / 6D _ PCT330 / 6D _ PCT330 / 6D _ PCT470 / 6H _ PCT470 / 6H _ PCT470 / 6H _ PCT680 / 6H _ PCT680 / 6H _ PCT1000 / 6Z _	0.6 0.9 1.0 1.4 1.4 2.1 2.1 2.8 3.0 4.0 4.3 4.3 6.3 6.3 6.3 9.5 9.5 13.9 13.9 20.8 20.8 28.0 42.8 63.0	6 6 6 6 6 6 8 6 6 10 6 6 8 8 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8	4.0 3.5 2.5 3.0 2.5 2.5 2.2 1.8 1.6 2.0 1.6 0.9 1.7 0.9 0.9 1.3 0.9 1.2 0.9 0.9 0.4 0.4 0.4 0.4		1.0 1.5 2.2 3.3 3.3 4.7 4.7 6.8 6.8 6.8 10.0 10.0 15.0 15.0 22.0 22.0 22.0 33.0 33.0 33.0 47.0 47.0 68.0 68.0 100.0 150.0 150.0 150.0 150.0	A A A A B A B A B C A B C B C D B C D C D C D D H D H H	PCT1	0.5 0.5 0.5 0.5 0.8 0.8 1.1 1.1 1.6 1.6 2.4 2.4 2.4 3.5 3.5 3.5 5.3 5.3 7.5 7.5 7.5 7.5 10.9 16.0 24.0 24.0 35.2	4 6 6 6 6 6 6 6 6 8 6 8 6 6 6 6 6 6 6 6	11.0 8.0 6.5 5.0 4.5 4.0 3.5 3.5 2.5 2.5 3.0 2.8 2.0 2.0 2.5 1.8 2.3 1.6 1.1 2.1 1.5 0.9 1.4 0.9 1.3 0.9 0.9 0.9 0.9	

_ Insert tolerance M (\pm 20%) or K(\pm 10%) to complete the Nemco part number

PCT Standard and Extended Range Surface Mount Tantalum Capacitors

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Capacitance (μF)	Case Size	Nemco Part No.	DCL (μΑ) max.	tan δ max. (%)	ESR @ 100kHz max. (Ω)		Capacitance (μF)	Case Size	Nemco Part No.	DCL (μΑ) max.	tan δ max. (%)	ESR @ 100kHz max. (Ω)	
20 V D	c @ (85°C				35 V DC @ 85°C							
1.0 1.5 2.2 2.2 3.3 3.3 4.7 4.7 6.8 6.8 6.8 10.0 10.0 15.0 22.0 22.0 22.0 22.0 33.0 33.0 47.0 47.0 47.0 68.0 68.0 100.0 150.0	A A A B A B A B C B C B C B C D C D C D H D H D H T	PCT1 / 20A _ PCT1.5 / 20A _ PCT1.5 / 20A _ PCT2.2 / 20A _ PCT2.2 / 20B _ PCT3.3 / 20A _ PCT4.7 / 20A _ PCT6.8 / 20A _ PCT6.8 / 20A _ PCT6.8 / 20B _ PCT6.8 / 20B _ PCT10 / 20B _ PCT10 / 20B _ PCT15 / 20B _ PCT15 / 20B _ PCT12 / 20C _ PCT22 / 20D _ PCT22 / 20D _ PCT33 / 20C _ PCT33 / 20C _ PCT33 / 20C _ PCT33 / 20C _ PCT47 / 20D _ PCT47 / 20D _ PCT47 / 20D _ PCT47 / 20D _ PCT68 / 20D _ PCT100 / 20D _ PCT100 / 20D _ PCT100 / 20D _ PCT100 / 20H _ PCT100 / 20H _ PCT150 / 20H _	0.5 0.5 0.5 0.7 0.7 0.9 0.9 1.4 1.4 2.0 2.0 3.0 3.0 4.4 4.4 4.4 6.6 6.6 9.4 9.4 9.4 13.6 20.0 20.0 30.0	466666666666666666666888	9.0 6.5 5.3 3.5 4.5 3.0 4.0 3.0 2.5 2.5 2.0 2.1 1.9 2.0 1.7 1.8 1.6 0.9 1.5 0.9 0.9 0.9 0.9 0.9 0.9 0.9		0.1 0.15 0.22 0.33 0.47 0.48 0.68 1.0 1.0 1.5 1.5 1.5 2.2 2.2 2.2 2.2 3.3 3.3 4.7 4.7 6.8 6.8 10.0 10.0 15.0 15.0 15.0 15.0 22.0 22.0 33.0 33.0 47.0 68.0	A A A A A B A B A B C A B C B C D B C D C D C D H C D D H D H H N	PCT.1 / 35A _ PCT.15 / 35A _ PCT.22 / 35A _ PCT.33 / 35A _ PCT.47 / 35A _ PCT.47 / 35A _ PCT.47 / 35B _ PCT.68 / 35B _ PCT.68 / 35B _ PCT.1.5 / 35B _ PCT.1.5 / 35B _ PCT.1.5 / 35B _ PCT.1.5 / 35B _ PCT.2.2 / 35A _ PCT.2.2 / 35A _ PCT.2.2 / 35B _ PCT.2.2 / 35B _ PCT.3.3 / 35C _ PCT.3.3 / 35C _ PCT.3.3 / 35D _ PCT.4.7 / 35B _ PCT.4.7 / 35B _ PCT.4.7 / 35D _ PCT.4.7	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	4 4 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6	24.0 21.0 18.0 15.0 12.0 10.0 8.0 8.0 7.5 6.5 7.5 4.5 4.5 4.5 4.5 2.5 2.5 3.5 3.5 2.5 1.8 1.3 1.6 1.0 0.9 0.9 0.9 0.9 0.9	
25 V D	25 V DC @ 85°C 50 V DC @ 85°C												
1.0 1.5 1.5 2.2 2.2 3.3 3.3 3.3 4.7 4.7 4.7 6.8 6.8 10.0 10.0 15.0 22.0 22.0 23.0 33.0 47.0 47.0 68.0 100.0	A A B A B A B C A B C B C C D C D C D D H D H H N	PCT1	0.5 0.5 0.5 0.6 0.6 0.8 0.8 0.8 1.2 1.2 1.7 1.7 2.5 3.8 3.8 5.5 5.5 8.3 8.3 11.8 11.8 17.0 25.0	466666666666666666668	8.0 7.5 5.0 7.5 3.7 3.5 2.8 3.1 2.8 2.4 2.8 2.0 1.8 1.2 1.6 1.0 1.4 0.9 0.9 0.9 0.9 0.9 0.9		0.1 0.15 0.15 0.22 0.22 0.33 0.47 0.47 0.68 0.68 1.0 1.0 1.5 1.5 2.2 2.2 3.3 3.3 4.7 6.8 10.0	A A B A B B A B C A B C A B C C D C D C D D D D H D H N	PCT.1 / 50A _ PCT.15 / 50A _ PCT.15 / 50A _ PCT.15 / 50A _ PCT.22 / 50A _ PCT.22 / 50B _ PCT.33 / 50B _ PCT.47 / 50A _ PCT.68 / 50A _ PCT.68 / 50A _ PCT.68 / 50A _ PCT.68 / 50B _ PCT.68 / 50B _ PCT.68 / 50B _ PCT.68 / 50B _ PCT.68 / 50C _ PCT.1 / 50A _ PCT.1 / 50A _ PCT.1 / 50B _ PCT.1 / 50C _ PCT.5 / 50C _ PCT.5 / 50C _ PCT.5 / 50C _ PCT.5 / 50C _ PCT.2.2 / 50C _ PCT.3.3 / 50C _ PCT.3.3 / 50C _ PCT.3.3 / 50D _ PCT.4.7 / 50D _ PCT.6.8 / 50D _	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 6 6 6 6	22.0 15.0 17.0 18.0 14.0 12.0 9.5 9.5 8.0 7.9 8.0 7.0 6.6 7.0 5.5 4.5 4.0 3.0 2.5 2.5 2.0 1.4 1.0 0.6 0.6	