













## CA45 Chip Tantalum Capacitors (SMD Tantalum Capacitors)

◆ Table 3 Electrical Characteristics

Part Number	Rated Voltage	Nominal Capacitance	Case Code	Rated Temperature	Category Temperature	Category Voltage	Max DCL at +25°C	Max DF at +25°C 100Hz	Max ESR +25°CΩ 100KHz	Ripple Current (mA) 100KHz Max		
	V	μF	C	C	C	V	Ua	%	Ω	25C	85C	125C
CA45T335#0020000B	20	3.3	B	85	125	15	0.7	6	2.5	184	166	74
CA45T335#0020000C	20	3.3	C	85	125	15	0.7	6	2	235	211	94
CA45T475#0020000A	20	4.7	A	85	125	15	0.9	6	3	158	142	63
CA45T475#0020000B	20	4.7	B	85	125	15	0.9	6	2	206	186	82
CA45T475#0020000C	20	4.7	C	85	125	15	0.9	6	1.8	247	222	99
CA45T685#0020000A	20	6.8	A	85	125	15	1.4	6	2.5	173	156	69
CA45T685#0020000B	20	6.8	B	85	125	15	1.4	6	2	206	186	82
CA45T685#0020000C	20	6.8	C	85	125	15	1.4	6	1.5	271	244	108
CA45T106#0020000A	20	10	A	85	125	15	2	8	3	158	142	63
CA45T106#0020000B	20	10	B	85	125	15	2	6	2.5	184	166	74
CA45T106#0020000C	20	10	C	85	125	15	2	6	1.5	271	244	108
CA45T156#0020000B	20	15	B	85	125	15	3	6	2.5	184	166	74
CA45T156#0020000C	20	15	C	85	125	15	3	6	1.5	271	244	108
CA45T156#0020000D	20	15	D	85	125	15	3	6	1	387	349	155
CA45T226#0020000B	20	22	B	85	125	15	4.4	7	2.5	184	166	74
CA45T226#0020000C	20	22	C	85	125	15	4.4	6	1.5	271	244	108
CA45T226#0020000D	20	22	D	85	125	15	4.4	6	0.8	433	390	173
CA45T336#0020000C	20	33	C	85	125	15	6.6	6	1.5	271	244	108
CA45T336#0020000D	20	33	D	85	125	15	6.6	6	1	387	349	155
CA45T476#0020000C	20	47	C	85	125	15	9.4	8	1.5	271	244	108
CA45T476#0020000D	20	47	D	85	125	15	9.4	6	0.8	433	390	173
CA45T476#0020000E	20	47	E	85	125	15	9.4	6	0.6	524	472	210
CA45T686#0020000C	20	68	C	85	125	15	14	8	1.5	271	244	108
CA45T686#0020000D	20	68	D	85	125	15	14	6	0.8	433	390	173
CA45T686#0020000E	20	68	E	85	125	15	14	6	0.7	486	437	194
CA45T107#0020000D	20	100	D	85	125	15	20	6	1	387	349	155
CA45T107#0020000E	20	100	E	85	125	15	20	6	0.7	486	437	194
CA45T107#0020000V	20	100	V	85	125	15	20	8	0.5	707	636	283
CA45T157#0020000D	20	150	D	85	125	15	30	10	0.8	433	390	173
CA45T157#0020000E	20	150	E	85	125	15	30	8	0.6	524	472	210
CA45T157#0020000V	20	150	V	85	125	15	30	8	0.4	791	712	316
CA45T227#0020000E	20	220	E	85	125	15	44	12	0.6	524	472	210
CA45T227#0020000V	20	220	V	85	125	15	44	12	0.5	707	636	283
CA45T337#0020000E	20	330	E	85	125	15	66	12	0.8	454	409	182
CA45T337#0020000V	20	330	V	85	125	15	66	12	0.8	559	503	224
CA45T334#0025000A	25	0.33	A	85	125	17	0.5	4	10	87	78	35
CA45T474#0025000A	25	0.47	A	85	125	17	0.5	4	10	87	78	35
CA45T684#0025000A	25	0.68	A	85	125	17	0.5	4	6	112	101	45
CA45T684#0025000B	25	0.68	B	85	125	17	0.5	4	4	146	131	58
CA45T105#0025000A	25	1	A	85	125	17	0.5	4	6	112	101	45
CA45T105#0025000B	25	1	B	85	125	17	0.5	4	2.5	184	166	74
CA45T155#0025000A	25	1.5	A	85	125	17	0.5	6	5	122	110	49
CA45T155#0025000B	25	1.5	B	85	125	17	0.5	6	2.5	184	166	74
CA45T225#0025000A	25	2.2	A	85	125	17	0.6	6	4	137	123	55
CA45T225#0025000B	25	2.2	B	85	125	17	0.6	6	2.5	184	166	74
CA45T225#0025000C	25	2.2	C	85	125	17	0.6	6	1.5	271	244	108
CA45T335#0025000A	25	3.3	A	85	125	17	0.8	6	3	158	142	63
CA45T335#0025000B	25	3.3	B	85	125	17	0.8	6	2.5	184	166	74
CA45T335#0025000C	25	3.3	C	85	125	17	0.8	6	2	235	211	94
CA45T475#0025000A	25	4.7	A	85	125	17	1.2	6	3	158	142	63
CA45T475#0025000B	25	4.7	B	85	125	17	1.2	6	2	206	186	82
CA45T475#0025000C	25	4.7	C	85	125	17	1.2	6	1.8	247	222	99

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Part Number	Rated Voltage	Nominal Capacitance	Case Code	Rated Temperature	Category Temperature	Category Voltage	Max DCL at +25°C	Max DF at +25°C 100Hz	Max ESR +25°C Ω 100KHz	Ripple Current (mA) 100KHz Max		
										25C	85C	125C
CA45T685#0025000B	25	6.8	B	85	125	17	1.7	6	2	206	186	82
CA45T685#0025000C	25	6.8	C	85	125	17	1.7	6	1.5	271	244	108
CA45T685#0025000D	25	6.8	D	85	125	17	1.7	6	1.2	354	318	141
CA45T106#0025000B	25	10	B	85	125	17	2.5	6	2.5	184	166	74
CA45T106#0025000C	25	10	C	85	125	17	2.5	6	1.5	271	244	108
CA45T106#0025000D	25	10	D	85	125	17	2.5	6	1	387	349	155
CA45T156#0025000B	25	15	B	85	125	17	3.8	8	2.5	184	166	74
CA45T156#0025000C	25	15	C	85	125	17	3.8	6	1.5	271	244	108
CA45T156#0025000D	25	15	D	85	125	17	3.8	6	1	387	349	155
CA45T226#0025000C	25	22	C	85	125	17	5.5	6	1.5	271	244	108
CA45T226#0025000D	25	22	D	85	125	17	5.5	6	0.8	433	390	173
CA45T336#0025000D	25	33	D	85	125	17	8.3	6	1	387	349	155
CA45T336#0025000E	25	33	E	85	125	17	8.3	6	0.8	454	409	182
CA45T476#0025000D	25	47	D	85	125	17	12	6	0.8	433	390	173
CA45T476#0025000E	25	47	E	85	125	17	12	6	0.6	524	472	210
CA45T686#0025000D	25	68	D	85	125	17	17	8	0.8	433	390	173
CA45T686#0025000E	25	68	E	85	125	17	17	6	0.7	486	437	194
CA45T686#0025000V	25	68	V	85	125	17	17	6	0.5	707	636	283
CA45T107#0025000E	25	100	E	85	125	17	25	10	0.7	486	437	194
CA45T107#0025000V	25	100	V	85	125	17	25	8	0.5	707	636	283
CA45T157#0025000E	25	150	E	85	125	17	38	10	0.6	524	472	210
CA45T157#0025000V	25	150	V	85	125	17	38	10	0.4	791	712	316
CA45T154#0035000A	35	0.15	A	85	125	23	0.5	4	15	71	64	28
CA45T224#0035000A	35	0.22	A	85	125	23	0.5	4	15	71	64	28
CA45T334#0035000A	35	0.33	A	85	125	23	0.5	4	10	87	78	35
CA45T474#0035000A	35	0.47	A	85	125	23	0.5	4	10	87	78	35
CA45T474#0035000B	35	0.47	B	85	125	23	0.5	4	6	119	107	48
CA45T684#0035000A	35	0.68	A	85	125	23	0.5	4	6	112	101	45
CA45T684#0035000B	35	0.68	B	85	125	23	0.5	4	4	146	131	58
CA45T105#0035000A	35	1	A	85	125	23	0.5	4	6	112	101	45
CA45T105#0035000B	35	1	B	85	125	23	0.5	4	2.5	184	166	74
CA45T155#0035000A	35	1.5	A	85	125	23	0.5	6	6	112	101	45
CA45T155#0035000B	35	1.5	B	85	125	23	0.5	6	2.5	184	166	74
CA45T155#0035000C	35	1.5	C	85	125	23	0.5	6	1.5	271	244	108
CA45T225#0035000A	35	2.2	A	85	125	23	0.8	6	5	122	110	49
CA45T225#0035000B	35	2.2	B	85	125	23	0.8	6	2.5	184	166	74
CA45T225#0035000C	35	2.2	C	85	125	23	0.8	6	1.5	271	244	108
CA45T335#0035000B	35	3.3	B	85	125	23	1.2	6	2.5	184	166	74
CA45T335#0035000C	35	3.3	C	85	125	23	1.2	6	2	235	211	94
CA45T475#0035000B	35	4.7	B	85	125	23	1.6	6	2	206	186	82
CA45T475#0035000C	35	4.7	C	85	125	23	1.6	6	1.8	247	222	99
CA45T475#0035000D	35	4.7	D	85	125	23	1.6	6	1.2	354	318	141
CA45T685#0035000B	35	6.8	B	85	125	23	2.4	6	1.8	217	196	87
CA45T685#0035000C	35	6.8	C	85	125	23	2.4	6	1.5	271	244	108
CA45T685#0035000D	35	6.8	D	85	125	23	2.4	6	1.2	354	318	141
CA45T106#0035000C	35	10	C	85	125	23	3.5	6	1.5	271	244	108
CA45T106#0035000D	35	10	D	85	125	23	3.5	6	1	387	349	155
CA45T106#0035000E	35	10	E	85	125	23	3.5	6	0.8	454	409	182
CA45T156#0035000C	35	15	C	85	125	23	5.3	6	1.5	271	244	108
CA45T156#0035000D	35	15	D	85	125	23	5.3	6	1	387	349	155
CA45T156#0035000E	35	15	E	85	125	23	5.3	6	0.8	454	409	182
CA45T226#0035000C	35	22	C	85	125	23	7.7	6	1.5	271	244	108



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Part Number	Rated Voltage	Nominal Capacitance	Case Code	Rated Temperature	Category Temperature	Category Voltage	Max DCL at +25°C	Max DF at +25°C 100Hz	Max ESR +25°CΩ 100KHz	Ripple Current (mA) 100KHz Max		
										25C	85C	125C
CA45T226#0035000D	35	22	D	85	125	23	7.7	6	0.8	433	390	173
CA45T226#0035000E	35	22	E	85	125	23	7.7	6	0.5	574	517	230
CA45T336#0035000D	35	33	D	85	125	23	12	6	1	387	349	155
CA45T336#0035000E	35	33	E	85	125	23	12	6	0.8	454	409	182
CA45T336#0035000V	35	33	V	85	125	23	12	6	0.5	707	636	283
CA45T476#0035000D	35	47	D	85	125	23	17	10	0.8	433	390	173
CA45T476#0035000E	35	47	E	85	125	23	17	10	0.6	524	472	210
CA45T476#0035000V	35	47	V	85	125	23	17	8	0.4	791	712	316
CA45T686#0035000E	35	68	E	85	125	23	24	8	0.7	486	437	194
CA45T686#0035000V	35	68	V	85	125	23	24	6	0.5	707	636	283
CA45T154#0050000A	50	0.15	A	85	125	33	0.5	4	15	71	64	28
CA45T154#0050000B	50	0.15	B	85	125	33	0.5	4	14	78	70	31
CA45T224#0050000A	50	0.22	A	85	125	33	0.5	4	15	71	64	28
CA45T224#0050000B	50	0.22	B	85	125	33	0.5	4	14	78	70	31
CA45T334#0050000A	50	0.33	A	85	125	33	0.5	4	10	87	78	35
CA45T334#0050000B	50	0.33	B	85	125	33	0.5	4	8	103	93	41
CA45T474#0050000B	50	0.47	B	85	125	33	0.5	4	6	119	107	48
CA45T474#0050000C	50	0.47	C	85	125	33	0.5	4	3	191	172	77
CA45T684#0050000A	50	0.68	A	85	125	33	0.5	4	6	112	101	45
CA45T684#0050000B	50	0.68	B	85	125	33	0.5	4	4	146	131	58
CA45T684#0050000C	50	0.68	C	85	125	33	0.5	4	3	191	172	77
CA45T105#0050000A	50	1	A	85	125	33	0.5	4	6	112	101	45
CA45T105#0050000B	50	1	B	85	125	33	0.5	6	2.5	184	166	74
CA45T105#0050000C	50	1	C	85	125	33	0.5	4	2	235	211	94
CA45T155#0050000B	50	1.5	B	85	125	33	0.8	8	2.5	184	166	74
CA45T155#0050000C	50	1.5	C	85	125	33	0.8	6	1.5	271	244	108
CA45T155#0050000D	50	1.5	D	85	125	33	0.8	6	1.2	354	318	141
CA45T225#0050000B	50	2.2	B	85	125	33	1.1	8	2.5	184	166	74
CA45T225#0050000C	50	2.2	C	85	125	33	1.1	6	2.5	210	189	84
CA45T225#0050000D	50	2.2	D	85	125	33	1.1	6	2.5	245	220	98
CA45T335#0050000C	50	3.3	C	85	125	33	1.7	6	2	235	211	94
CA45T335#0050000D	50	3.3	D	85	125	33	1.7	6	1.5	316	285	126
CA45T475#0050000C	50	4.7	C	85	125	33	2.4	6	1.8	247	222	99
CA45T475#0050000D	50	4.7	D	85	125	33	2.4	6	1.2	354	318	141
CA45T685#0050000C	50	6.8	C	85	125	33	3.4	6	1.5	271	244	108
CA45T685#0050000D	50	6.8	D	85	125	33	3.4	6	1.2	354	318	141
CA45T685#0050000E	50	6.8	E	85	125	33	3.4	6	1	406	366	162
CA45T106#0050000D	50	10	D	85	125	33	5	6	1	387	349	155
CA45T106#0050000E	50	10	E	85	125	33	5	6	0.8	454	409	182
CA45T106#0050000V	50	10	V	85	125	33	5	6	0.7	598	538	239
CA45T156#0050000D	50	15	D	85	125	33	7.5	6	1	387	349	155
CA45T156#0050000E	50	15	E	85	125	33	7.5	6	0.8	454	409	182
CA45T156#0050000V	50	15	V	85	125	33	7.5	6	0.7	598	538	239
CA45T226#0050000E	50	22	E	85	125	33	11	8	0.5	574	517	230
CA45T226#0050000V	50	22	V	85	125	33	11	8	0.4	791	712	316

### Important Note

1. Please do not use multimeter to test tantalum capacitors.
2. Capacitance and DF measured at :100Hz ,  $U_{-} = 2.2^{\circ} V$  ,  $U_{\sim} = 1.0^{\circ} V$  , Frequency = 100Hz. Test only applied to series equivalent circuit.
3. Please refer to derating voltage or category voltage if temperature  $> 85^{\circ} C$
4. The DCL parameter should be read after 5 minutes when it connected to the circuit.
5. For special requirement please consult to our sales.