

CA45U Low ESR Chip Tantalum Capacitors (SMD Tantalum Capacitors)

◆ Brief Introduction

Low ESR series of robust MnO₂ solid tantalum electrolyte capacitors

Power supply applications, general medium power DC/DC convertors

Operating Standard: QJ/PWV330-2010

Factory quality control system: Military Standard GJB9001C-2017

Meets RoHS , Reach requirement

◆ Specifications

Operating Temperature Range: -55 °C ~ +125 °C; >85 °C(with rated voltage derating);

DC Leakage at 25 °C: $I_o \leq 0.01C_R U_R$ or 0.5uA (Choose the greater one)

Capacitance Range: 1uF~1000uF

Voltage Range: 6.3V, 10V, 16V, 25V, 35V, 50V, 63V, 75V, 100V

Capacitance Tolerance: K: +/-10%; M: +/-20% (+/-20% tolerance is standard)

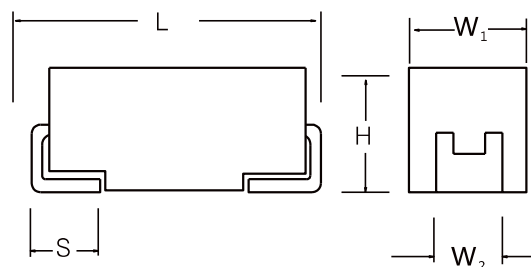
SPQ: A,B case: 2000pcs/reel; C,D case: 500pcs/reel; E case: 400pcs/reel

Low ESR parameter please refer to Table 3

How to order, please refer to Part Number System

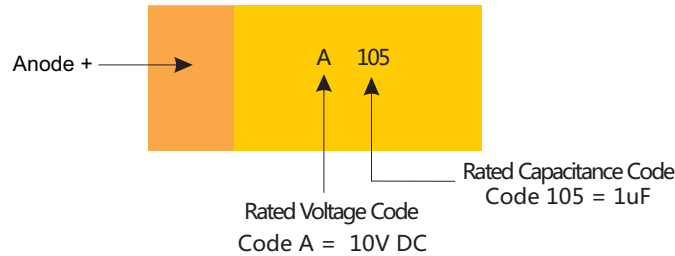
◆ Table 1 Dimensions (Unit: mm)

	Case Code		L	W1	H	S	W2
A	1206	3216-18	3.30±0.20	1.70±0.20	1.80±0.20	0.70±0.20	1.20±0.20
B	1210	3528-21	3.60±0.20	2.90±0.20	2.10±0.20	0.70±0.20	2.20±0.20
C	2312	6032-28	6.20±0.20	3.30±0.20	2.60±0.20	1.30±0.20	2.20±0.20
D	2917	7343-31	7.40±0.20	4.40±0.20	3.00±0.20	1.30±0.20	2.40±0.20
E	2917	7343-43	7.40±0.40	4.40±0.40	4.30±0.40	1.30±0.20	2.40±0.20
V	2924	7360-38	7.50±0.40	6.20±0.40	3.80±0.40	1.40±0.20	3.00±0.20



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◆ Marking on Chip Tantalum Capacitor Body



Voltage Code Table for Chip Tantalum Capacitors

Voltage Code	G	J	A	C	D	E	V	H	T
Rated Voltage	4V	6.3V	10V	16V	20V	25V	35V	40V	50V

◆Table 2 Temperature Characteristics

Max					
tgδ(%)				DCL (μA)	
-55°C	25°C	85°C	125°C	85°C	125°C
6	4	6		8 I _o	10 I _o
8	6	8			
10	8	10			
12	10	12			
14	12	14			
18	16	18			

◆ How to order

<u>CA45U</u>	<u>T</u>	<u>107</u>	<u>K</u>	<u>0006</u>	<u>000B</u>	<u>R</u>	<u>401</u>
<u>Type</u>	<u>Material Code</u>	<u>Capacitance Code</u>	<u>Tolerance</u>	<u>For DC Voltage</u>	<u>Size Code</u>	<u>Package Code</u>	<u>Suffix Indicate Low ESR</u>
CA45U	T: Tantalum Cap For CA45U	pF Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) 106 = 10uF 105 = 1uF	K: +/-10% M: +/-20%	0006: 6.3VDC 0010: 10VDC 0035: 35VDC 0050: 50VDC 0100: 100VDC	000A: A case 000B: B case 000C: C case 000D: D case 000E: E case	R: Tape & Reel	Low ESR code in mΩ 151: mean 150mΩ (0.15Ω) 202: mean 2000mΩ (2Ω) 750: mean 75mΩ (0.075Ω)

Case Code/ESR

Rated Voltage (v)	4	6.3	10	16
Cap(uF)	Case Code/ESR			
6.8				A(2000), B(1200)
10			A(1800)	A(1700), B(1200)
15			A(1000), B(600)	B(800), C(600)
22			A(1200), B(400)	B(700), C(500), D(500)
33		A(1500), B(600)	B(450), C(400), D(300)	C(500), D(300)
47	A(1500), B(900)	B(600), C(300)	B(500), C(400), D(300)	C(300), D(300), E(200)
68	B(1000), C(600)	B(500), C(500), D(250)	C(200), D(150)	C(1000), D(200), E(200)
100	B(450), C(500)	B(400), C(300), D(300)	C(250), D(200), E(150)	C(800), D(200), E(200)
150	C(500), D(350), E(200)	C(300), D(300), E(150)	D(200), E(150)	D(500), E(200)
220	C(500), D(300), E(100)	C(200), D(150), E(150)	D(200), E(200), V(200)	E(200), V(200)
330	D(400), E(200), V(200)	D(150), E(150)	D(150), E(150), V(150)	E(180), V(180)
470	D(200), E(150), V(150)	E(150)	E(150)	E(450)
680	E(150)	E(150)	E(150)	
1000	E(150)			

Continued table

Rated Voltage (v)	20	25	35	50
Cap(uF)	Case Code/ESR			
0.47			A(4000), A(8000)	A(3000)
0.68			A(6000), A(7000)	B(3000)
1			A(6000), B(2500)	B(2500), C(1800)
1.5		A(4500), B(3000)	B(3000), C(2500)	C(1800), D(1000)
2.2		A(3000), B(2500)	B(2500), C(2000)	C(1500), D(700)
3.3	A(4000), B(3000)	B(2000), C(1200)	B(2500), C(1200)	C(700), D(700)
4.7	A(2500), B(1500), C(1000)	B(1000), C(1000)	B(2000), C(800), D(700)	C(700), D(600)
6.8	B(1000), C(800)	B(2000), C(1000), D(700)	C(700), D(600)	D(600), E(500)
10	B(1200), C(600), D(500)	B(1500), C(900), D(450)	C(700), D(400)	D(400), E(400)
15	B(1500), C(800), D(600)	C(500), D(400)	D(350), E(300)	E(400)
22	C(600), D(400)	C(800), D(400)	D(400), E(300)	E(400)
33	C(600), D(400)	D(300), E(250)	D(500), E(300)	
47	C(300), D(250), E(250)	D(350), E(300)	D(400), E(400)	
68	D(250), E(250)	E(250), V(250)	E(800)	
100	D(300), E(250)	E(200), V(200)		
150	D(450), E(180)	E(600), V(300)		
220	E(450), V(250)			
330	E(450), V(450)			



◆ 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°C 100KHz	Ripple Current (A) 100KHz Max		
	(V)	(μF)		(°C)	(°C)	(V)	(μA)	%	mΩ	25°C	85°C	125°C
CA45UT476#0004000A152	4	47	A	85	125	2.7	1.9	11	1500	0.208	0.125	0.083
CA45UT476#0004000B901	4	47	B	85	125	2.7	1.9	8	900	0.289	0.173	0.115
CA45UT686#0004000B102	4	68	B	85	125	2.7	2.7	8	1000	0.274	0.164	0.11
CA45UT686#0004000C601	4	68	C	85	125	2.7	2.7	6	600	0.387	0.232	0.155
CA45UT107#0004000B451	4	100	B	85	125	2.7	4	10	450	0.408	0.245	0.163
CA45UT107#0004000C501	4	100	C	85	125	2.7	4	10	500	0.424	0.255	0.17
CA45UT157#0004000C501	4	150	C	85	125	2.7	6	10	500	0.424	0.255	0.17
CA45UT157#0004000D351	4	150	D	85	125	2.7	6	8	350	0.548	0.329	0.219
CA45UT157#0004000E201	4	150	E	85	125	2.7	6	8	200	0.791	0.474	0.316
CA45UT227#0004000C501	4	220	C	85	125	2.7	8.8	12	500	0.424	0.255	0.17
CA45UT227#0004000D301	4	220	D	85	125	2.7	8.8	10	300	0.592	0.355	0.237
CA45UT227#0004000E101	4	220	E	85	125	2.7	8.8	10	100	1.118	0.671	0.447
CA45UT337#0004000D401	4	330	D	85	125	2.7	13.2	14	400	0.512	0.307	0.205
CA45UT337#0004000E201	4	330	E	85	125	2.7	13.2	12	200	0.791	0.474	0.316
CA45UT337#0004000V201	4	330	V	85	125	2.7	13.2	12	200	0.866	0.52	0.346
CA45UT477#0004000D201	4	470	D	85	125	2.7	18.8	14	200	0.725	0.435	0.29
CA45UT477#0004000E151	4	470	E	85	125	2.7	18.8	12	150	0.913	0.548	0.365
CA45UT477#0004000V151	4	470	V	85	125	2.7	18.8	12	150	1	0.6	0.4
CA45UT687#0004000E151	4	680	E	85	125	2.7	27.2	14	150	0.913	0.548	0.365
CA45UT108#0004000E151	4	1000	E	85	125	2.7	40	15	150	0.913	0.548	0.365
CA45UT336#0006000A152	6.3	33	A	85	125	4	2.1	8	1500	0.208	0.125	0.083
CA45UT336#0006000B601	6.3	33	B	85	125	4	2.1	8	600	0.354	0.212	0.141
CA45UT476#0006000B601	6.3	47	B	85	125	4	3	8	600	0.354	0.212	0.141
CA45UT476#0006000C301	6.3	47	C	85	125	4	3	6	300	0.548	0.329	0.219
CA45UT686#0006000B501	6.3	68	B	85	125	4	4.3	10	500	0.387	0.232	0.155
CA45UT686#0006000C501	6.3	68	C	85	125	4	4.3	8	500	0.424	0.255	0.17
CA45UT686#0006000D251	6.3	68	D	85	125	4	4.3	6	250	0.648	0.389	0.259
CA45UT107#0006000B401	6.3	100	B	85	125	4	6.3	14	400	0.433	0.26	0.173
CA45UT107#0006000C301	6.3	100	C	85	125	4	6.3	8	300	0.548	0.329	0.219
CA45UT107#0006000D301	6.3	100	D	85	125	4	6.3	8	300	0.592	0.355	0.237
CA45UT157#0006000C301	6.3	150	C	85	125	4	9.5	12	300	0.548	0.329	0.219
CA45UT157#0006000D301	6.3	150	D	85	125	4	9.5	10	300	0.592	0.355	0.237
CA45UT157#0006000E151	6.3	150	E	85	125	4	9.5	10	150	0.913	0.548	0.365
CA45UT227#0006000C201	6.3	220	C	85	125	4	13.9	14	200	0.671	0.402	0.268
CA45UT227#0006000D151	6.3	220	D	85	125	4	13.9	12	150	0.837	0.502	0.335
CA45UT227#0006000E151	6.3	220	E	85	125	4	13.9	12	150	0.913	0.548	0.365
CA45UT337#0006000D151	6.3	330	D	85	125	4	20.8	14	150	0.837	0.502	0.335
CA45UT337#0006000E151	6.3	330	E	85	125	4	20.8	14	150	0.913	0.548	0.365
CA45UT477#0006000E151	6.3	470	E	85	125	4	29.6	14	150	0.913	0.548	0.365
CA45UT687#0006000E151	6.3	680	E	85	125	4	42.8	14	150	0.913	0.548	0.365
CA45UT106#0010000A182	10	10	A	85	125	6.3	1	8	1800	0.19	0.114	0.076
CA45UT156#0010000A102	10	15	A	85	125	6.3	1.5	8	1000	0.255	0.153	0.102
CA45UT156#0010000B601	10	15	B	85	125	6.3	1.5	6	600	0.354	0.212	0.141
CA45UT226#0010000A122	10	22	A	85	125	6.3	2.2	12	1200	0.233	0.14	0.093
CA45UT226#0010000B401	10	22	B	85	125	6.3	2.2	6	400	0.433	0.26	0.173
CA45UT336#0010000B451	10	33	B	85	125	6.3	3.3	8	450	0.408	0.245	0.163
CA45UT336#0010000C401	10	33	C	85	125	6.3	3.3	6	400	0.474	0.285	0.19
CA45UT336#0010000D301	10	33	D	85	125	6.3	3.3	6	300	0.592	0.355	0.237
CA45UT476#0010000B501	10	47	B	85	125	6.3	4.7	10	500	0.387	0.232	0.155
CA45UT476#0010000C401	10	47	C	85	125	6.3	4.7	8	400	0.474	0.285	0.19
CA45UT476#0010000D301	10	47	D	85	125	6.3	4.7	6	300	0.592	0.355	0.237
CA45UT686#0010000C201	10	68	C	85	125	6.3	6.8	8	200	0.671	0.402	0.268
CA45UT686#0010000D151	10	68	D	85	125	6.3	6.8	6	150	0.837	0.502	0.335
CA45UT107#0010000C251	10	100	C	85	125	6.3	10	10	250	0.6	0.36	0.24
CA45UT107#0010000D201	10	100	D	85	125	6.3	10	8	200	0.725	0.435	0.29
CA45UT107#0010000E151	10	100	E	85	125	6.3	10	8	150	0.913	0.548	0.365
CA45UT157#0010000D201	10	150	D	85	125	6.3	15	10	200	0.725	0.435	0.29
CA45UT157#0010000E151	10	150	E	85	125	6.3	15	10	150	0.913	0.548	0.365
CA45UT227#0010000D201	10	220	D	85	125	6.3	22	12	200	0.725	0.435	0.29
CA45UT227#0010000E201	10	220	E	85	125	6.3	22	12	200	0.791	0.474	0.316
CA45UT277#0010000V201	10	220	V	85	125	6.3	22	12	200	0.866	0.52	0.346
CA45UT337#0010000D151	10	330	D	85	125	6.3	33	14	150	0.837	0.502	0.335
CA45UT337#0010000E151	10	330	E	85	125	6.3	33	14	150	0.913	0.548	0.365
CA45UT337#0010000V151	10	330	V	85	125	6.3	33	14	150	1	0.6	0.4
CA45UT477#0010000E151	10	470	E	85	125	6.3	47	14	150	0.913	0.548	0.365
CA45UT687#0010000E151	10	680	E	85	125	6.3	68	14	150	0.913	0.548	0.365
CA45UT685#0016000A202	16	6.8	A	85	125	10	1.1	6	2000	0.18	0.108	0.072
CA45UT685#0016000B102	16	6.8	B	85	125	10	1.1	6	1200	0.25	0.15	0.1
CA45UT106#0016000A172	16	10	A	85	125	10	1.6	8	1700	0.196	0.117	0.078
CA45UT106#0016000B122	16	10	B	85	125	10	1.6	6	1200	0.25	0.15	0.1
CA45UT156#0016000B801	16	15	B	85	125	10	2.4	6	800	0.306	0.184	0.122
CA45UT156#0016000C601	16	15	C	85	125	10	2.4	6	600	0.387	0.232	0.155
CA45UT226#0016000B701	16	22	B	85	125	10	3.5	8	700	0.327	0.196	0.131
CA45UT226#0016000C501	16	22	C	85	125	10	3.5	6	500	0.424	0.255	0.17
CA45UT226#0016000D501	16	22	D	85	125	10	3.5	6	500	0.458	0.275	0.183
CA45UT336#0016000C501	16	33	C	85	125	10	5.3	6	500	0.424	0.255	0.17
CA45UT336#0016000D301	16	33	D	85	125	10	5.3	6	300	0.592	0.355	0.237
CA45UT476#0016000C301	16	47	C	85	125	10	7.5	8	300	0.548	0.329	0.219
CA45UT476#0016000D301	16	47	D	85	125	10	7.5	6	300	0.592	0.355	0.237
CA45UT476#0016000E201	16	47	E	85	125	10	7.5	6	200	0.791	0.474	0.316
CA45UT686#0016000C102	16	68	C	85	125	10	10.9	8	1000	0.3	0.18	0.12
CA45UT686#0016000D201	16	68	D	85	125	10	10.9	8	200	0.725	0.435	0.29
CA45UT686#0016000E201	16	68	E	85	125	10	10.9	6	200	0.791	0.474	0.316
CA45UT107#0016000C801	16	100	C	85	125	10	16	12	800	0.335	0.201	0.134



◆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 100kHz	Max ESR +25°C 100kHz	Ripple Current (A)		
	(V)	(μF)		(°C)	(°C)					25°C	85°C	125°C
CA45UT107#0016000D201	16	100	D	85	125	10	16	8	200	0.725	0.435	0.29
CA45UT107#0016000E201	16	100	E	85	125	10	16	8	200	0.791	0.474	0.316
CA45UT157#0016000D501	16	150	D	85	125	10	24	12	500	0.458	0.275	0.183
CA45UT157#0016000E201	16	150	E	85	125	10	24	10	200	0.791	0.474	0.316
CA45UT227#0016000E201	16	220	E	85	125	10	35.2	12	200	0.791	0.474	0.316
CA45UT227#0016000V201	16	220	V	85	125	10	35.2	12	200	0.866	0.52	0.346
CA45UT337#0016000E181	16	330	E	85	125	10	52.8	12	180	0.833	0.5	0.333
CA45UT337#0016000V181	16	330	V	85	125	10	52.8	12	180	0.913	0.548	0.365
CA45UT477#0016000E451	16	470	E	85	125	10	75.2	16	450	0.527	0.316	0.211
CA45UT335#0020000A402	20	3.3	A	85	125	15	0.7	6	4000	0.127	0.076	0.051
CA45UT335#0020000B302	20	3.3	B	85	125	15	0.7	6	3000	0.158	0.095	0.063
CA45UT475#0020000A252	20	4.7	A	85	125	15	0.9	6	2500	0.161	0.097	0.064
CA45UT475#0020000B152	20	4.7	B	85	125	15	0.9	6	1500	0.224	0.134	0.089
CA45UT475#0020000C102	20	4.7	C	85	125	15	0.9	6	1000	0.3	0.18	0.12
CA45UT685#0020000B102	20	6.8	B	85	125	15	1.4	6	1000	0.274	0.164	0.11
CA45UT685#0020000C801	20	6.8	C	85	125	15	1.4	6	800	0.335	0.201	0.134
CA45UT106#0020000B122	20	10	B	85	125	15	2	6	1200	0.25	0.15	0.1
CA45UT106#0020000C601	20	10	C	85	125	15	2	6	600	0.387	0.232	0.155
CA45UT106#0020000D501	20	10	D	85	125	15	2	6	500	0.458	0.275	0.183
CA45UT156#0020000B152	20	15	B	85	125	15	3	6	1500	0.224	0.134	0.089
CA45UT156#0020000C801	20	15	C	85	125	15	3	6	800	0.335	0.201	0.134
CA45UT156#0020000D601	20	15	D	85	125	15	3	6	600	0.418	0.251	0.167
CA45UT226#0020000C601	20	22	C	85	125	15	4.4	6	600	0.387	0.232	0.155
CA45UT226#0020000D401	20	22	D	85	125	15	4.4	6	400	0.512	0.307	0.205
CA45UT336#0020000C601	20	33	C	85	125	15	6.6	6	600	0.387	0.232	0.155
CA45UT336#0020000D401	20	33	D	85	125	15	6.6	6	400	0.512	0.307	0.205
CA45UT476#0020000C301	20	47	C	85	125	15	9.4	8	300	0.548	0.329	0.219
CA45UT476#0020000D251	20	47	D	85	125	15	9.4	8	250	0.648	0.389	0.259
CA45UT476#0020000E251	20	47	E	85	125	15	9.4	6	250	0.707	0.424	0.283
CA45UT686#0020000D251	20	68	D	85	125	15	13.6	8	250	0.648	0.389	0.259
CA45UT686#0020000E251	20	68	E	85	125	15	13.6	6	250	0.707	0.424	0.283
CA45UT107#0020000D301	20	100	D	85	125	15	20	10	300	0.592	0.355	0.237
CA45UT107#0020000E251	20	100	E	85	125	15	20	10	250	0.707	0.424	0.283
CA45UT157#0020000D451	20	150	D	85	125	15	30	10	450	0.483	0.29	0.193
CA45UT157#0020000E181	20	150	E	85	125	15	30	10	180	0.833	0.5	0.333
CA45UT227#0020000E451	20	220	E	85	125	15	44	12	450	0.527	0.316	0.211
CA45UT227#0020000V251	20	220	V	85	125	15	44	12	250	0.775	0.465	0.31
CA45UT337#0020000E451	20	330	E	85	125	15	66	12	450	0.527	0.316	0.211
CA45UT337#0020000V451	20	330	V	85	125	15	66	12	450	0.577	0.346	0.231
CA45UT155#0025000A452	25	1.5	A	85	125	17	0.5	6	4500	0.12	0.072	0.048
CA45UT155#0025000B302	25	1.5	B	85	125	17	0.5	6	3000	0.158	0.095	0.063
CA45UT225#0025000A302	25	2.2	A	85	125	17	0.6	6	3000	0.147	0.088	0.059
CA45UT225#0025000B252	25	2.2	B	85	125	17	0.6	6	2500	0.173	0.104	0.069
CA45UT335#0025000B202	25	3.3	B	85	125	17	0.8	6	2000	0.194	0.116	0.077
CA45UT335#0025000C122	25	3.3	C	85	125	17	0.8	6	1200	0.274	0.164	0.11
CA45UT475#0025000B102	25	4.7	B	85	125	17	1.2	6	1000	0.274	0.164	0.11
CA45UT475#0025000C102	25	4.7	C	85	125	17	1.2	6	1000	0.3	0.18	0.12
CA45UT685#0025000B202	25	6.8	B	85	125	17	1.7	6	2000	0.194	0.116	0.077
CA45UT685#0025000C102	25	6.8	C	85	125	17	1.7	6	1000	0.3	0.18	0.12
CA45UT685#0025000D701	25	6.8	D	85	125	17	1.7	6	700	0.387	0.232	0.155
CA45UT106#0025000B152	25	10	B	85	125	17	2.5	8	1500	0.224	0.134	0.089
CA45UT106#0025000C901	25	10	C	85	125	17	2.5	6	900	0.316	0.19	0.126
CA45UT106#0025000D451	25	10	D	85	125	17	2.5	6	450	0.483	0.29	0.193
CA45UT156#0025000C501	25	15	C	85	125	17	3.8	6	500	0.424	0.255	0.17
CA45UT156#0025000D401	25	15	D	85	125	17	3.8	6	400	0.512	0.307	0.205
CA45UT226#0025000C801	25	22	C	85	125	17	5.5	6	800	0.335	0.201	0.134
CA45UT226#0025000D401	25	22	D	85	125	17	5.5	6	400	0.512	0.307	0.205
CA45UT336#0025000D301	25	33	D	85	125	17	8.3	8	300	0.592	0.355	0.237
CA45UT336#0025000E251	25	33	E	85	125	17	8.3	6	250	0.707	0.424	0.283
CA45UT476#0025000D351	25	47	D	85	125	17	11.8	8	350	0.548	0.329	0.219
CA45UT476#0025000E301	25	47	E	85	125	17	11.8	6	300	0.645	0.387	0.258
CA45UT686#0025000E251	25	68	E	85	125	17	17	8	250	0.707	0.424	0.283
CA45UT686#0025000V251	25	68	V	85	125	17	17	8	250	0.775	0.465	0.31
CA45UT107#0025000E201	25	100	E	85	125	17	25	10	200	0.791	0.474	0.316
CA45UT107#0025000V201	25	100	V	85	125	17	25	10	200	0.866	0.52	0.346
CA45UT157#0025000E601	25	150	E	85	125	17	37.5	10	600	0.456	0.274	0.183
CA45UT105#0035000A602	35	1	A	85	125	23	0.5	6	6000	0.104	0.062	0.042
CA45UT105#0035000B252	35	1	B	85	125	23	0.5	4	2500	0.173	0.104	0.069
CA45UT155#0035000B302	35	1.5	B	85	125	23	0.5	6	3000	0.158	0.095	0.063
CA45UT155#0035000C252	35	1.5	C	85	125	23	0.5	6	2500	0.19	0.114	0.076
CA45UT225#0035000B252	35	2.2	B	85	125	23	0.8	6	2500	0.173	0.104	0.069
CA45UT225#0035000C202	35	2.2	C	85	125	23	0.8	6	2000	0.212	0.127	0.085
CA45UT335#0035000B252	35	3.3	B	85	125	23	1.2	6	2500	0.173	0.104	0.069
CA45UT335#0035000C122	35	3.3	C	85	125	23	1.2	6	1200	0.274	0.164	0.11
CA45UT475#0035000B202	35	4.7	B	85	125	23	1.6	8	2000	0.194	0.116	0.077
CA45UT475#0035000C801	35	4.7	C	85	125	23	1.6	6	800	0.335	0.201	0.134
CA45UT475#0035000D701	35	4.7	D	85	125	23	1.6	6	700	0.387	0.232	0.155
CA45UT685#0035000C701	35	6.8	C	85	125	23	2.4	6	700	0.359	0.215	0.143
CA45UT685#0035000D601	35	6.8	D	85	125	23	2.4	6	600	0.418	0.251	0.167
CA45UT106#0035000C701	35	10	C	85	125	23	3.5	6	700	0.359	0.215	0.143
CA45UT106#0035000D401	35	10	D	85	125	23	3.5	6	400	0.512	0.307	0.205
CA45UT156#0035000D351	35	15	D	85	125	23	5.3	6	350	0.548	0.329	0.219
CA45UT156#0035000E301	35	15	E	85	125	23	5.3	6	300	0.645	0.387	0.258
CA45UT226#0035000D401	35	22	D	85	125	23	7.7	6	400	0.512	0.307	0.205

CA45U Low ESR 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°C Ω 100KHz	Ripple Current (A) 100KHz Max		
	(V)	(μF)		(°C)	(°C)		(V)	(μA)	%	mΩ	25°C	85°C
CA45UT226#0035000E301	35	22	E	85	125	23	7.7	6	300	0.645	0.387	0.258
CA45UT336#0035000D501	35	33	D	85	125	23	11.6	8	500	0.458	0.275	0.183
CA45UT336#0035000E301	35	33	E	85	125	23	11.6	6	300	0.645	0.387	0.258
CA45UT476#0035000D401	35	47	D	85	125	23	16.5	8	400	0.512	0.307	0.205
CA45UT476#0035000E401	35	47	E	85	125	23	16.5	6	400	0.559	0.335	0.224
CA45UT686#0035000E801	35	68	E	85	125	23	23.8	8	800	0.395	0.237	0.158
CA45UT105#0050000B252	50	1	B	85	125	33	0.5	6	2500	0.173	0.104	0.069
CA45UT105#0050000C182	50	1	C	85	125	33	0.5	4	1800	0.224	0.134	0.089
CA45UT155#0050000C182	50	1.5	C	85	125	33	0.8	6	1800	0.224	0.134	0.089
CA45UT155#0050000D102	50	1.5	D	85	125	33	0.8	6	1000	0.324	0.194	0.13
CA45UT225#0050000C152	50	2.2	C	85	125	33	1.1	6	1500	0.245	0.147	0.098
CA45UT225#0050000D701	50	2.2	D	85	125	33	1.1	6	700	0.387	0.232	0.155
CA45UT335#0050000C701	50	3.3	C	85	125	33	1.7	6	700	0.359	0.215	0.143
CA45UT335#0050000D701	50	3.3	D	85	125	33	1.7	6	700	0.387	0.232	0.155
CA45UT475#0050000C701	50	4.7	C	85	125	33	2.4	6	700	0.359	0.215	0.143
CA45UT475#0050000D601	50	4.7	D	85	125	33	2.4	6	600	0.418	0.251	0.167
CA45UT685#0050000D601	50	6.8	D	85	125	33	3.4	6	600	0.418	0.251	0.167
CA45UT685#0050000E501	50	6.8	E	85	125	33	3.4	6	500	0.5	0.3	0.2
CA45UT106#0050000D401	50	10	D	85	125	33	5	6	400	0.512	0.307	0.205
CA45UT106#0050000E401	50	10	E	85	125	33	5	6	400	0.559	0.335	0.224
CA45UT156#0050000E401	50	15	E	85	125	33	7.5	6	400	0.559	0.335	0.224
CA45UT226#0050000E401	50	22	E	85	125	33	11	8	400	0.559	0.335	0.224

Important Note

1. Please do not use multimeter to test tantalum capacitors.
2. Capacitance and DF measured at :100Hz , $U_{-} = 2.2^{+0.10}V$, $U_{\sim} = 1.0^{+0.05}V$, Frequency = 100Hz. Test only applied to series equivalent circuit.
3. Please refer to derating voltage or category voltage if temperature > 85°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.
- 6 '# means tolerance.