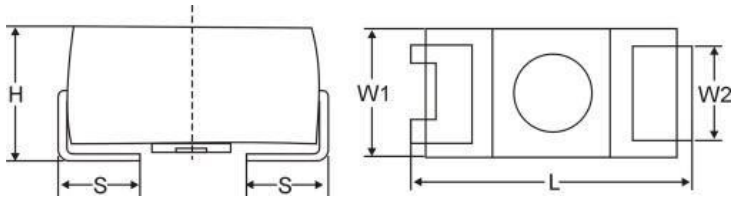


**FEATURES**

- Compatible with all popular "High Volume" automatic pick and equipment
- Molded case available in six case codes
- Optical character recognition qualified



**DRAWING (mm)**



DIMENSIONS – MILLIMETERS (Unit: mm)						
Case Size	L ± 0.4	W1±0.4	H ±0.4	S ± 0.3	W2	
<b>P</b>	<b>2012</b>	2.0	1.2	1.2	0.5	1.0±0.2
<b>A</b>	<b>3216</b>	3.2	1.6	1.6	0.8	1.2±0.2
<b>B</b>	<b>3528</b>	3.5	2.8	1.9	0.8	2.2±0.2
<b>C</b>	<b>6032</b>	6.0	3.2	2.5	1.3	2.2±0.2
<b>D</b>	<b>7343</b>	7.3	4.3	2.8	1.3	2.4±0.2
<b>E</b>	<b>7343</b>	7.3	4.3	4.1	1.3	2.4±0.5

**SPECIFICATIONS**

<b>Operating Temperature Range:</b>	-55°C to +125°C (>85°C with rated voltage derating.)
<b>Capacitance Range:</b>	0.1µF to 470µF
<b>Rated Voltage:</b>	D.C. 4V ~ 50V
<b>Capacitance Tolerance:</b>	±20%, ±10%, ±5% (for special order)
<b>DC Leakage Current:</b>	$I_o \leq 0.01 \text{ CRVR}$ or 0.5µA (whichever is greater)
<b>Load Life:</b>	85 °C, After applying rated voltage for 2000 hours at 85 °C Capacitance change: within ±10% of the initial value Dissipation factor: Not more than 150% of the specified value

**TEMPERATURE CHARACTERISTICS**

Capacitance (µF)	Capacitance Change (%)			Dissipation Factor Max. (%)				DCL Max. (µA)	
	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C
≤1.0	±10	±10	±12	6	4	6	6	+10 I <sub>o</sub>	+12 I <sub>o</sub>
1.5 ~ 68				10	6	10	10		
100 ~ 470				14	12	14	14		

**LOAD VOLTAGE**

Product model	Main materials of cathode	Load requirements after derating	Explain
WTB	MnO <sub>2</sub>	≤50%U <sub>R</sub>	General application
		≤30%U <sub>R</sub>	Power circuit or low impedance circuit

Note: U<sub>R</sub> is the rated voltage under the condition of temperature ≤ 85 °C, When the temperature is higher than 85 °C, temperature derating should be considered.

**TEMPERATURE DERATING**

Temperature range	Derating calculation formula	Explain	
85°C~125°C	$U_T = (U_R - U_C) * (T - 85) / 40$	U <sub>R</sub>	It is the rated voltage under the condition of temperature ≤ 85 °C
		U <sub>C</sub>	It is the rated voltage at 125 °C
		U <sub>T</sub>	It is the voltage to be reduced between 85 °C and 125 °C



**Rated Voltage, Nominal Capacitance and Case Sizes**

U <sub>R</sub>	V <sub>≤+85°C</sub>	4	6.3	10	16	20	25	35	50
<b>Rated Voltage Marking</b>		<b>G</b>	<b>J</b>	<b>A</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>V</b>	<b>T</b>
<b>Voltage Derating (V<sub>c</sub>) ≤+125°C</b>		<b>2.7</b>	<b>4</b>	<b>6.3</b>	<b>10</b>	<b>15</b>	<b>17</b>	<b>23</b>	<b>33</b>
<b>Surge Voltage ≤ +85°C (V<sub>s</sub>)</b>		<b>5.2</b>	<b>8</b>	<b>13</b>	<b>20</b>	<b>26</b>	<b>32</b>	<b>46</b>	<b>65</b>
<b>Surge Voltage ≤ +125°C (V<sub>s</sub>)</b>		<b>3.4</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>16</b>	<b>20</b>	<b>28</b>	<b>40</b>
Capacitance (μF)	Marking	Case Size (standard / miniature / Super miniature)							
0.1	104							A	A/B
0.15	154							A	A/B
0.22	224							A	A/B
0.33	334						A	A	A/B
0.47	474				P	P	A	A/B	A/C
0.68	684			P	A/P	A/P	A	A/B	A/C
1.0	105	A	A	A/P	A/P	A	A	A/B	C
1.5	155	A/P	A	A/P	A	A/B	A/B	A/B/C	D
2.2	225	A/P	A	A/P	A/B	A/B	A/B	B/C	C/D
3.3	335	A/P	A	A/P	A/B	A/B	B/C	C/D	D
4.7	475	A/P	A	A/B/P	A/B	A/B/C	B/C	C/D	D
6.8	685	A/P	A	A/B	A/B	B/C	B/C	C/D	D
10	106	A/P	A/B	A/B	A/B/C	B/C/D	B/C/D	C/D	
15	156	A/B	A	A/B/C	B/C	C	C/D	D/E	
22	226	A/B	A/B/C	A/B/C	B/C/D	C/D	D		
33	336	B/C	A/B	B/C/D	C/D	C/D	D/E		
47	476	B/C	B/C	B/C/D	C/D	D/E	D/E		
68	686	B/C	B/C/D	C/D	D	D/E			
100	107	B/C	B/C	C/D	D/E				
150	157	C/D/ E	C/D	D/E	E				
220	227	C/D/ E	C/D	D					
330	337	E	D						



**CA45 SMD Chip Tantalum Capacitors Standard**

Rated Voltage	Rated CAP	Case Code	Rated Temperature	Category Temperature	Category Voltage	Max DCL at +25°C	Max DF at +25°C	DF at 100Hz	Max ESR +25°C Ω 100KHz	Ripple Current (mA)		
										100KHz Max		
V	uF	C	C	C	V	Ua	%		Ω	25C	85C	125C
2.5	33	A	85	125	1.7	0.8	8		3	158	142	63
2.5	47	A	85	125	1.7	1.2	6		3	158	142	63
2.5	68	A	85	125	1.7	1.7	8		2.5	173	156	69
2.5	100	A	85	125	1.7	2.5	20		3	158	142	63
2.5	100	B	85	125	1.7	2.5	8		2	206	186	82
2.5	150	B	85	125	1.7	3.8	10		1.8	217	196	87
2.5	220	B	85	125	1.7	5.5	16		1.6	230	207	92
2.5	220	D	85	125	1.7	5.5	8		0.8	433	390	173
2.5	330	D	85	125	1.7	8.3	8		0.3	707	636	283
2.5	470	C	85	125	1.7	12	12		0.5	469	422	188
2.5	470	D	85	125	1.7	12	8		0.4	612	551	245
2.5	680	C	85	125	1.7	17	18		0.6	428	385	171
2.5	680	D	85	125	1.7	17	16		0.5	548	493	219
2.5	680	E	85	125	1.7	17	10		0.5	574	517	230
2.5	1000	D	85	125	1.7	25	18		0.5	548	493	219
2.5	1000	E	85	125	1.7	25	14		0.4	642	578	257
2.5	1500	D	85	125	1.7	38	20		0.4	612	551	245
2.5	1500	E	85	125	1.7	38	14		0.3	742	667	297
2.5	1500	V	85	125	1.7	38	14		0.2	1118	1006	447
2.5	2200	V	85	125	1.7	55	20		0.4	791	712	316
4	2.2	A	85	125	2.7	0.5	6		3	158	142	63
4	3.3	A	85	125	2.7	0.5	6		3	158	142	63
4	4.7	A	85	125	2.7	0.5	6		3	158	142	63
4	4.7	B	85	125	2.7	0.5	6		2	206	186	82
4	6.8	A	85	125	2.7	0.5	6		2.5	173	156	69
4	6.8	B	85	125	2.7	0.5	6		2	206	186	82
4	10	A	85	125	2.7	0.5	6		3	158	142	63
4	10	B	85	125	2.7	0.5	6		2.5	184	166	74
4	15	A	85	125	2.7	0.6	6		3	158	142	63
4	15	B	85	125	2.7	0.6	6		2.5	184	166	74
4	15	C	85	125	2.7	0.6	6		1.5	271	244	108
4	22	A	85	125	2.7	0.9	6		3	158	142	63
4	22	B	85	125	2.7	0.9	6		2.5	184	166	74
4	22	C	85	125	2.7	0.9	6		1.5	271	244	108
4	33	A	85	125	2.7	1.3	8		3	158	142	63
4	33	B	85	125	2.7	1.3	6		2.5	184	166	74
4	33	C	85	125	2.7	1.3	6		1.5	271	244	108
4	47	A	85	125	2.7	1.9	8		3	158	142	63
4	47	B	85	125	2.7	1.9	6		2.5	184	166	74
4	47	C	85	125	2.7	1.9	6		1.5	271	244	108
4	68	A	85	125	2.7	2.7	14		2.5	173	156	69
4	68	B	85	125	2.7	2.7	6		1.8	217	196	87
4	68	C	85	125	2.7	2.7	6		1.5	271	244	108
4	100	A	85	125	2.7	4	18		3	158	142	63



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Rated Voltage	Rated CAP	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		
V	μF	C	C	C	V	Ua	%	Ω	25C	85C	125C
4	100	B	85	125	2.7	4	14	2	206	186	82
4	100	C	85	125	2.7	4	8	1.5	271	244	108
4	150	B	85	125	2.7	6	16	1.8	217	196	87
4	150	C	85	125	2.7	6	8	1.2	303	272	121
4	150	D	85	125	2.7	6	8	0.8	433	390	173
4	220	B	85	125	2.7	8.8	18	1.6	230	207	92
4	220	C	85	125	2.7	8.8	10	1.2	303	272	121
4	220	D	85	125	2.7	8.8	8	0.8	433	390	173
4	330	C	85	125	2.7	13	10	1.2	303	272	121
4	330	D	85	125	2.7	13	8	0.9	408	367	163
4	330	E	85	125	2.7	13	12	0.8	454	409	182
4	470	C	85	125	2.7	19	14	0.5	469	422	188
4	470	D	85	125	2.7	19	10	0.4	612	551	245
4	470	E	85	125	2.7	19	10	0.4	642	578	257
4	680	D	85	125	2.7	27	12	0.5	548	493	219
4	680	E	85	125	2.7	27	14	0.5	574	517	230
4	1000	D	85	125	2.7	40	20	0.5	548	493	219
4	1000	E	85	125	2.7	40	14	0.4	642	578	257
4	1000	V	85	125	2.7	40	12	0.3	913	822	365
4	1500	E	85	125	2.7	60	14	0.3	742	667	297
4	1500	V	85	125	2.7	60	18	0.2	1118	1006	447
6.3	1.5	A	85	125	4	0.5	6	3	158	142	63
6.3	2.2	A	85	125	4	0.5	6	3	158	142	63
6.3	3.3	A	85	125	4	0.5	6	3	158	142	63
6.3	3.3	B	85	125	4	0.5	6	2.5	184	166	74
6.3	4.7	A	85	125	4	0.5	6	3	158	142	63
6.3	4.7	B	85	125	4	0.5	6	2	206	186	82
6.3	6.8	A	85	125	4	0.5	6	2.5	173	156	69
6.3	6.8	B	85	125	4	0.5	6	2	206	186	82
6.3	10	A	85	125	4	0.6	6	3	158	142	63
6.3	10	B	85	125	4	0.6	6	2.5	184	166	74
6.3	10	C	85	125	4	0.6	6	1.5	271	244	108
6.3	15	A	85	125	4	0.9	6	3	158	142	63
6.3	15	B	85	125	4	0.9	6	2.5	184	166	74
6.3	15	C	85	125	4	0.9	6	1.5	271	244	108
6.3	22	A	85	125	4	1.4	8	3	158	142	63
6.3	22	B	85	125	4	1.4	6	2.5	184	166	74
6.3	22	C	85	125	4	1.4	6	1.5	271	244	108
6.3	33	A	85	125	4	2.1	8	3	158	142	63
6.3	33	B	85	125	4	2.1	6	2.5	184	166	74
6.3	33	C	85	125	4	2.1	6	1.5	271	244	108
6.3	47	A	85	125	4	3	10	3	158	142	63
6.3	47	B	85	125	4	3	8	2.5	184	166	74
6.3	47	C	85	125	4	3	6	1.5	271	244	108



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Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
6.3	68	A	85	125	4	4.3	14	3	158	142	63
6.3	68	B	85	125	4	4.3	10	1.5	238	214	95
6.3	68	C	85	125	4	4.3	8	1	332	298	133
6.3	100	A	85	125	4	10	26	3	158	142	63
6.3	100	B	85	125	4	6.3	14	2	206	186	82
6.3	100	C	85	125	4	6.3	8	1.5	271	244	108
6.3	150	B	85	125	4	9.5	18	1.8	217	196	87
6.3	150	C	85	125	4	9.5	10	1.2	303	272	121
6.3	150	D	85	125	4	9.5	8	0.8	433	390	173
6.3	220	B	85	125	4	14	18	1.6	230	207	92
6.3	220	C	85	125	4	14	14	1.2	303	272	121
6.3	220	D	85	125	4	14	8	0.8	433	390	173
6.3	330	C	85	125	4	21	14	1.2	303	272	121
6.3	330	D	85	125	4	21	8	0.9	408	367	163
6.3	330	E	85	125	4	21	8	0.8	454	409	182
6.3	470	D	85	125	4	30	14	0.4	612	551	245
6.3	470	E	85	125	4	30	10	0.4	642	578	257
6.3	470	V	85	125	4	30	10	0.4	791	712	316
6.3	680	E	85	125	4	43	10	0.5	574	517	230
6.3	680	V	85	125	4	43	10	0.4	791	712	316
6.3	1000	E	85	125	4	63	14	0.4	642	578	257
6.3	1000	V	85	125	4	63	14	0.3	913	822	365
10	1	A	85	125	6.3	0.5	4	3	158	142	63
10	1	B	85	125	6.3	0.5	4	2.5	184	166	74
10	1.5	A	85	125	6.3	0.5	6	3	158	142	63
10	2.2	A	85	125	6.3	0.5	6	3	158	142	63
10	2.2	B	85	125	6.3	0.5	6	2.5	184	166	74
10	3.3	A	85	125	6.3	0.5	6	3	158	142	63
10	3.3	B	85	125	6.3	0.5	6	2.5	184	166	74
10	4.7	A	85	125	6.3	0.5	6	3	158	142	63
10	4.7	B	85	125	6.3	0.5	6	2	206	186	82
10	6.8	A	85	125	6.3	0.7	6	2.5	173	156	69
10	6.8	B	85	125	6.3	0.7	6	2	206	186	82
10	6.8	C	85	125	6.3	0.7	6	1.5	271	244	108
10	10	A	85	125	6.3	1	6	3	158	142	63
10	10	B	85	125	6.3	1	6	2.5	184	166	74
10	10	C	85	125	6.3	1	6	1.5	271	244	108
10	15	A	85	125	6.3	1.5	6	3	158	142	63
10	15	B	85	125	6.3	1.5	6	2.5	184	166	74
10	15	C	85	125	6.3	1.5	6	1.5	271	244	108
10	22	A	85	125	6.3	2.2	8	3	158	142	63
10	22	B	85	125	6.3	2.2	6	2.5	184	166	74
10	22	C	85	125	6.3	2.2	6	1.5	271	244	108
10	33	A	85	125	6.3	3.3	14	3	158	142	63



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Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
10	33	B	85	125	6.3	3.3	6	2.5	184	166	74
10	33	C	85	125	6.3	3.3	6	1.5	271	244	108
10	47	A	85	125	6.3	10	26	3	158	142	63
10	47	B	85	125	6.3	4.7	8	2	206	186	82
10	47	C	85	125	6.3	4.7	6	1	332	298	133
10	68	A	85	125	6.3	6.8	26	2.5	173	156	69
10	68	B	85	125	6.3	6.8	10	1.4	246	222	99
10	68	C	85	125	6.3	6.8	6	1.5	271	244	108
10	68	D	85	125	6.3	6.8	6	0.8	433	390	173
10	100	A	85	125	6.3	10	26	3	158	142	63
10	100	B	85	125	6.3	10	18	2	206	186	82
10	100	C	85	125	6.3	10	8	1.5	271	244	108
10	100	D	85	125	6.3	10	8	1	387	349	155
10	150	C	85	125	6.3	15	10	1.2	303	272	121
10	150	D	85	125	6.3	15	8	0.8	433	390	173
10	150	E	85	125	6.3	15	8	0.6	524	472	210
10	220	C	85	125	6.3	22	14	1.2	303	272	121
10	220	D	85	125	6.3	22	8	0.8	433	390	173
10	220	E	85	125	6.3	22	8	0.6	524	472	210
10	330	D	85	125	6.3	33	14	0.9	408	367	163
10	330	E	85	125	6.3	33	8	0.8	454	409	182
10	330	V	85	125	6.3	33	10	0.8	559	503	224
10	470	E	85	125	6.3	47	14	0.4	642	578	257
10	470	V	85	125	6.3	47	14	0.4	791	712	316
10	680	E	85	125	6.3	68	14	0.5	574	517	230
16	1	A	85	125	10	0.5	4	6	112	101	45
16	1	B	85	125	10	0.5	4	2.5	184	166	74
16	1.5	A	85	125	10	0.5	6	5	122	110	49
16	1.5	B	85	125	10	0.5	6	2.5	184	166	74
16	2.2	A	85	125	10	0.5	6	5	122	110	49
16	2.2	B	85	125	10	0.5	6	2.5	184	166	74
16	3.3	A	85	125	10	0.5	6	5	122	110	49
16	3.3	B	85	125	10	0.5	6	2.5	184	166	74
16	4.7	A	85	125	10	0.8	6	5	122	110	49
16	4.7	B	85	125	10	0.8	6	3	168	151	67
16	4.7	C	85	125	10	0.8	6	1.8	247	222	99
16	6.8	A	85	125	10	1.1	6	4	137	123	55
16	6.8	B	85	125	10	1.1	6	2	206	186	82
16	6.8	C	85	125	10	1.1	6	1.5	271	244	108
16	10	A	85	125	10	1.6	6	3	158	142	63
16	10	B	85	125	10	1.6	6	2.5	184	166	74
16	10	C	85	125	10	1.6	6	1.5	271	244	108
16	15	A	85	125	10	2.4	6	3	158	142	63
16	15	B	85	125	10	2.4	6	2.5	184	166	74



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**CA45 SMD Chip Tantalum Capacitors Standard**

Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
16	15	C	85	125	10	2.4	6	1.5	271	244	108
16	22	A	85	125	10	3.5	15	3	158	142	63
16	22	B	85	125	10	3.5	6	2.5	184	166	74
16	22	C	85	125	10	3.5	6	1.5	271	244	108
16	33	B	85	125	10	5.3	8	2.5	184	166	74
16	33	C	85	125	10	5.3	6	1.5	271	244	108
16	33	D	85	125	10	5.3	6	1	387	349	155
16	47	B	85	125	10	7.5	10	2.5	184	166	74
16	47	C	85	125	10	7.5	6	1.5	271	244	108
16	47	D	85	125	10	7.5	6	0.8	433	390	173
16	47	E	85	125	10	7.5	6	0.6	524	472	210
16	68	B	85	125	10	11	12	1.5	238	214	95
16	68	C	85	125	10	11	6	1.5	271	244	108
16	68	D	85	125	10	11	6	0.8	433	390	173
16	68	E	85	125	10	11	6	0.7	486	437	194
16	100	C	85	125	10	16	12	1.5	271	244	108
16	100	D	85	125	10	16	8	1	387	349	155
16	100	E	85	125	10	16	6	0.7	486	437	194
16	150	D	85	125	10	24	8	0.8	433	390	173
16	150	E	85	125	10	24	8	0.6	524	472	210
16	150	V	85	125	10	24	8	0.4	791	712	316
16	220	D	85	125	10	35	14	0.8	433	390	173
16	220	E	85	125	10	35	10	0.6	524	472	210
16	220	V	85	125	10	35	8	0.5	707	636	283
16	330	E	85	125	10	53	14	0.8	454	409	182
16	330	V	85	125	10	53	12	0.8	559	503	224
16	470	E	85	125	10	75	16	0.4	642	578	257
20	0.47	A	85	125	15	0.5	4	10	87	78	35
20	0.68	A	85	125	15	0.5	4	6	112	101	45
20	1	A	85	125	15	0.5	4	6	112	101	45
20	1	B	85	125	15	0.5	4	2.5	184	166	74
20	1.5	A	85	125	15	0.5	6	5	122	110	49
20	1.5	B	85	125	15	0.5	6	2.5	184	166	74
20	2.2	A	85	125	15	0.5	6	4	137	123	55
20	2.2	B	85	125	15	0.5	6	2.5	184	166	74
20	3.3	A	85	125	15	0.7	6	4.5	129	116	52
20	3.3	B	85	125	15	0.7	6	2.5	184	166	74
20	3.3	C	85	125	15	0.7	6	2	235	211	94
20	4.7	A	85	125	15	0.9	6	3	158	142	63
20	4.7	B	85	125	15	0.9	6	2	206	186	82
20	4.7	C	85	125	15	0.9	6	1.8	247	222	99
20	6.8	A	85	125	15	1.4	6	2.5	173	156	69
20	6.8	B	85	125	15	1.4	6	2	206	186	82
20	6.8	C	85	125	15	1.4	6	1.5	271	244	108



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**CA45 SMD Chip Tantalum Capacitors Standard**

Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
20	10	A	85	125	15	2	8	3	158	142	63
20	10	B	85	125	15	2	6	2.5	184	166	74
20	10	C	85	125	15	2	6	1.5	271	244	108
20	15	B	85	125	15	3	6	2.5	184	166	74
20	15	C	85	125	15	3	6	1.5	271	244	108
20	15	D	85	125	15	3	6	1	387	349	155
20	22	B	85	125	15	4.4	7	2.5	184	166	74
20	22	C	85	125	15	4.4	6	1.5	271	244	108
20	22	D	85	125	15	4.4	6	0.8	433	390	173
20	33	C	85	125	15	6.6	6	1.5	271	244	108
20	33	D	85	125	15	6.6	6	1	387	349	155
20	47	C	85	125	15	9.4	8	1.5	271	244	108
20	47	D	85	125	15	9.4	6	0.8	433	390	173
20	47	E	85	125	15	9.4	6	0.6	524	472	210
20	68	C	85	125	15	14	8	1.5	271	244	108
20	68	D	85	125	15	14	6	0.8	433	390	173
20	68	E	85	125	15	14	6	0.7	486	437	194
20	100	D	85	125	15	20	6	1	387	349	155
20	100	E	85	125	15	20	6	0.7	486	437	194
20	100	V	85	125	15	20	8	0.5	707	636	283
20	150	D	85	125	15	30	10	0.8	433	390	173
20	150	E	85	125	15	30	8	0.6	524	472	210
20	150	V	85	125	15	30	8	0.4	791	712	316
20	220	E	85	125	15	44	12	0.6	524	472	210
20	220	V	85	125	15	44	12	0.5	707	636	283
20	330	E	85	125	15	66	12	0.8	454	409	182
20	330	V	85	125	15	66	12	0.8	559	503	224
25	0.33	A	85	125	17	0.5	4	10	87	78	35
25	0.47	A	85	125	17	0.5	4	10	87	78	35
25	0.68	A	85	125	17	0.5	4	6	112	101	45
25	0.68	B	85	125	17	0.5	4	4	146	131	58
25	1	A	85	125	17	0.5	4	6	112	101	45
25	1	B	85	125	17	0.5	4	2.5	184	166	74
25	1.5	A	85	125	17	0.5	6	5	122	110	49
25	1.5	B	85	125	17	0.5	6	2.5	184	166	74
25	2.2	A	85	125	17	0.6	6	4	137	123	55
25	2.2	B	85	125	17	0.6	6	2.5	184	166	74
25	2.2	C	85	125	17	0.6	6	1.5	271	244	108
25	3.3	A	85	125	17	0.8	6	3	158	142	63
25	3.3	B	85	125	17	0.8	6	2.5	184	166	74
25	3.3	C	85	125	17	0.8	6	2	235	211	94
25	4.7	A	85	125	17	1.2	6	3	158	142	63
25	4.7	B	85	125	17	1.2	6	2	206	186	82
25	4.7	C	85	125	17	1.2	6	1.8	247	222	99





**CA45 SMD Chip Tantalum Capacitors Standard**

Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
25	6.8	B	85	125	17	1.7	6	2	206	186	82
25	6.8	C	85	125	17	1.7	6	1.5	271	244	108
25	6.8	D	85	125	17	1.7	6	1.2	354	318	141
25	10	B	85	125	17	2.5	6	2.5	184	166	74
25	10	C	85	125	17	2.5	6	1.5	271	244	108
25	10	D	85	125	17	2.5	6	1	387	349	155
25	15	B	85	125	17	3.8	8	2.5	184	166	74
25	15	C	85	125	17	3.8	6	1.5	271	244	108
25	15	D	85	125	17	3.8	6	1	387	349	155
25	22	C	85	125	17	5.5	6	1.5	271	244	108
25	22	D	85	125	17	5.5	6	0.8	433	390	173
25	33	D	85	125	17	8.3	6	1	387	349	155
25	33	E	85	125	17	8.3	6	0.8	454	409	182
25	47	D	85	125	17	12	6	0.8	433	390	173
25	47	E	85	125	17	12	6	0.6	524	472	210
25	68	D	85	125	17	17	8	0.8	433	390	173
25	68	E	85	125	17	17	6	0.7	486	437	194
25	68	V	85	125	17	17	6	0.5	707	636	283
25	100	E	85	125	17	25	10	0.7	486	437	194
25	100	V	85	125	17	25	8	0.5	707	636	283
25	150	E	85	125	17	38	10	0.6	524	472	210
25	150	V	85	125	17	38	10	0.4	791	712	316
35	0.15	A	85	125	23	0.5	4	15	71	64	28
35	0.22	A	85	125	23	0.5	4	15	71	64	28
35	0.33	A	85	125	23	0.5	4	10	87	78	35
35	0.47	A	85	125	23	0.5	4	10	87	78	35
35	0.47	B	85	125	23	0.5	4	6	119	107	48
35	0.68	A	85	125	23	0.5	4	6	112	101	45
35	0.68	B	85	125	23	0.5	4	4	146	131	58
35	1	A	85	125	23	0.5	4	6	112	101	45
35	1	B	85	125	23	0.5	4	2.5	184	166	74
35	1.5	A	85	125	23	0.5	6	6	112	101	45
35	1.5	B	85	125	23	0.5	6	2.5	184	166	74
35	1.5	C	85	125	23	0.5	6	1.5	271	244	108
35	2.2	A	85	125	23	0.8	6	5	122	110	49
35	2.2	B	85	125	23	0.8	6	2.5	184	166	74
35	2.2	C	85	125	23	0.8	6	1.5	271	244	108
35	3.3	B	85	125	23	1.2	6	2.5	184	166	74
35	3.3	C	85	125	23	1.2	6	2	235	211	94
35	4.7	B	85	125	23	1.6	6	2	206	186	82
35	4.7	C	85	125	23	1.6	6	1.8	247	222	99
35	4.7	D	85	125	23	1.6	6	1.2	354	318	141
35	6.8	B	85	125	23	2.4	6	1.8	217	196	87
35	6.8	C	85	125	23	2.4	6	1.5	271	244	108



**CA45 SMD Chip Tantalum Capacitors Standard**

Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
35	6.8	D	85	125	23	2.4	6	1.2	354	318	141
35	10	C	85	125	23	3.5	6	1.5	271	244	108
35	10	D	85	125	23	3.5	6	1	387	349	155
35	10	E	85	125	23	3.5	6	0.8	454	409	182
35	15	C	85	125	23	5.3	6	1.5	271	244	108
35	15	D	85	125	23	5.3	6	1	387	349	155
35	15	E	85	125	23	5.3	6	0.8	454	409	182
35	22	C	85	125	23	7.7	6	1.5	271	244	108
35	22	D	85	125	23	7.7	6	0.8	433	390	173
35	22	E	85	125	23	7.7	6	0.5	574	517	230
35	33	D	85	125	23	12	6	1	387	349	155
35	33	E	85	125	23	12	6	0.8	454	409	182
35	33	V	85	125	23	12	6	0.5	707	636	283
35	47	D	85	125	23	17	10	0.8	433	390	173
35	47	E	85	125	23	17	10	0.6	524	472	210
35	47	V	85	125	23	17	8	0.4	791	712	316
35	68	E	85	125	23	24	8	0.7	486	437	194
35	68	V	85	125	23	24	6	0.5	707	636	283
50	0.15	A	85	125	33	0.5	4	15	71	64	28
50	0.15	B	85	125	33	0.5	4	14	78	70	31
50	0.22	A	85	125	33	0.5	4	15	71	64	28
50	0.22	B	85	125	33	0.5	4	14	78	70	31
50	0.33	A	85	125	33	0.5	4	10	87	78	35
50	0.33	B	85	125	33	0.5	4	8	103	93	41
50	0.47	B	85	125	33	0.5	4	6	119	107	48
50	0.47	C	85	125	33	0.5	4	3	191	172	77
50	0.68	A	85	125	33	0.5	4	6	112	101	45
50	0.68	B	85	125	33	0.5	4	4	146	131	58
50	0.68	C	85	125	33	0.5	4	3	191	172	77
50	1	A	85	125	33	0.5	4	6	112	101	45
50	1	B	85	125	33	0.5	6	2.5	184	166	74
50	1	C	85	125	33	0.5	4	2	235	211	94
50	1.5	B	85	125	33	0.8	8	2.5	184	166	74
50	1.5	C	85	125	33	0.8	6	1.5	271	244	108
50	1.5	D	85	125	33	0.8	6	1.2	354	318	141
50	2.2	B	85	125	33	1.1	8	2.5	184	166	74
50	2.2	C	85	125	33	1.1	6	2.5	210	189	84
50	2.2	D	85	125	33	1.1	6	2.5	245	220	98
50	3.3	C	85	125	33	1.7	6	2	235	211	94
50	3.3	D	85	125	33	1.7	6	1.5	316	285	126
50	4.7	C	85	125	33	2.4	6	1.8	247	222	99
50	4.7	D	85	125	33	2.4	6	1.2	354	318	141
50	6.8	C	85	125	33	3.4	6	1.5	271	244	108
50	6.8	D	85	125	33	3.4	6	1.2	354	318	141



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Rated Voltage	Rated CAP	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		
V	uF	C	C	C	V	Ua	%	Ω	25C	85C	125C
50	6.8	E	85	125	33	3.4	6	1	406	366	162
50	10	D	85	125	33	5	6	1	387	349	155
50	10	E	85	125	33	5	6	0.8	454	409	182
50	10	V	85	125	33	5	6	0.7	598	538	239
50	15	D	85	125	33	7.5	6	1	387	349	155
50	15	E	85	125	33	7.5	6	0.8	454	409	182
50	15	V	85	125	33	7.5	6	0.7	598	538	239
50	22	E	85	125	33	11	8	0.5	574	517	230
50	22	V	85	125	33	11	8	0.4	791	712	316

1. Please do not use multi-meter through the measuring procedures.
2. Capacitance and DF measured at :100Hz U<sub>r</sub> = 2.2 1.0V U<sub>~</sub> = 1.0 0.5V, Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +85C.
4. The DCL parameter should be read after 5 minutes when it connected to the circuit
5. Special size and demand could consult with us.



**PN Structure:**

**WTB250K100BTR2500**

**10uF 25V +/-10% B case 2.5Ohm Tape/Reel RoHS**

**Body Mark: E100**

<u>WTB</u>	<u>250</u>	<u>K</u>	<u>100</u>	<u>B</u>	<u>T</u>	<u>R</u>	<u>000</u>
<u>Series</u>	<u>Voltage</u>	<u>Tolerance</u>	<u>Capacitance</u>	<u>Case</u>	<u>Packing</u>	<u>Pb</u>	<u>ESR Standard</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>

**1. Voltage & Mark**

040	4V	G
060	6.3V	J
100	10V	A
160	16V	C
200	20V	D
250	25V	E
350	35V	V
500	50V	T

**2. Tolerance**

J	±5.0%
K	±10%
M	±20%

**3. Capacitance**

0R1	0.1uF
R22	0.22uF
010	1uF
2R2	2.2uF
100	10uF
221	220uF

**4. Case**

A	B	C	D
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**5. Packing**

T	Tape/Reel
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**6. Pb**

R	RoHS
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