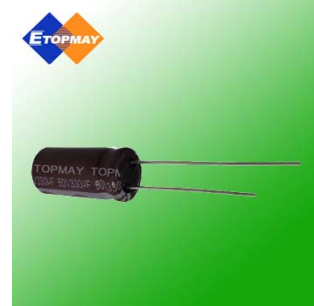




Features

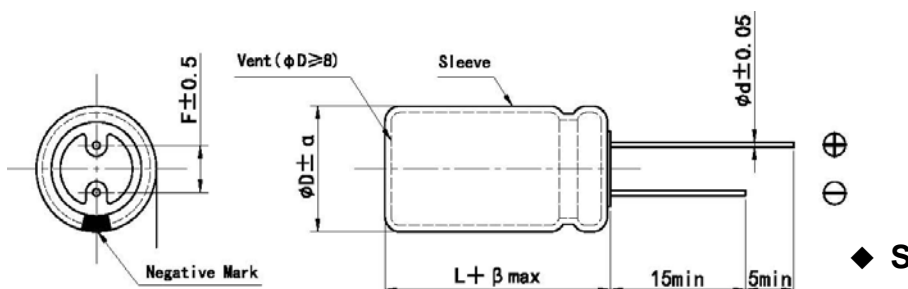
- 105°C, 10000 hours, extra low impedance, high ripple current.
- Suit for use in switching power supplies, LCD TV, LED, special control power supply and smart meter.



Specifications

Items	Characteristics																
Rated Voltage Range	6.3~50V.DC																
Operating Temperature Range	-40°C~+105°C																
Capacitance Tolerance	±20%(M) (25°C, 100 or 120Hz)																
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ Where, I:Max.leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V) After 2 minutes at 25°C.																
Dissipation Factor (tan δ)	(25°C, 100 or 120Hz) <table border="1"> <tr> <td>Rated voltage(V_{dc})</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tanδ(Max.)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> When nominal capacitance exceeds 1000 μF , add 0.02 to the value above for each 1000 μF increase.	Rated voltage(V _{dc})	6.3	10	16	25	35	50	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10		
Rated voltage(V _{dc})	6.3	10	16	25	35	50											
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10											
Low Temperature Characteristics (Max.Impedance Ratio)	Impedance ratio at 100Hz or 120Hz shall not exceed the values given in the below table. <table border="1"> <tr> <td>$Z_{25^\circ C} / Z_{+20^\circ C}$</td> <td>$\leq 2$</td> </tr> <tr> <td>$Z_{40^\circ C} / Z_{+20^\circ C}$</td> <td>$\leq 3$</td> </tr> </table>	$Z_{25^\circ C} / Z_{+20^\circ C}$	≤ 2	$Z_{40^\circ C} / Z_{+20^\circ C}$	≤ 3												
$Z_{25^\circ C} / Z_{+20^\circ C}$	≤ 2																
$Z_{40^\circ C} / Z_{+20^\circ C}$	≤ 3																
Shelf Life	After storage at 105°C for 1000 hours, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 25\%$ of the initial value</td> </tr> <tr> <td>D.F. (tanδ)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>\leq the initial specified value</td> </tr> </table>	Capacitance Change	$\leq \pm 25\%$ of the initial value	D.F. (tan δ)	$\leq 200\%$ of the initial specified value	Leakage Current	\leq the initial specified value										
Capacitance Change	$\leq \pm 25\%$ of the initial value																
D.F. (tan δ)	$\leq 200\%$ of the initial specified value																
Leakage Current	\leq the initial specified value																
Load Life	After application of rated voltage with rated ripple current for the specified period of time at +105°C, the following specification shall be satisfied. <table border="1"> <tr> <td>Capacitance Change</td> <td>$\leq \pm 25\%$ of the initial value</td> <td>Dia.(mm)</td> <td>Life Time</td> </tr> <tr> <td>D.F. (tanδ)</td> <td>$\leq 250\%$ of the initial specified value</td> <td>5~6.3</td> <td>6000 hours</td> </tr> <tr> <td>Leakage Current</td> <td>\leq the initial specified value</td> <td>8</td> <td>8000 hours</td> </tr> <tr> <td></td> <td></td> <td>10~18</td> <td>10000 hours</td> </tr> </table>	Capacitance Change	$\leq \pm 25\%$ of the initial value	Dia.(mm)	Life Time	D.F. (tan δ)	$\leq 250\%$ of the initial specified value	5~6.3	6000 hours	Leakage Current	\leq the initial specified value	8	8000 hours			10~18	10000 hours
Capacitance Change	$\leq \pm 25\%$ of the initial value	Dia.(mm)	Life Time														
D.F. (tan δ)	$\leq 250\%$ of the initial specified value	5~6.3	6000 hours														
Leakage Current	\leq the initial specified value	8	8000 hours														
		10~18	10000 hours														
Others	Meet Q/RME 128—2010																

◆ Dimensions mm



D	5	6.3	8	10	13	16	18
d	0.5		0.6	0.6 (0.8)	0.8		
F	2.0	2.5	3.5	5.0	5.0	7.5	
α	0.5						
β	1.0		2.0				



Size, Max Ripple Current And Impedance

Voltage (V)	Cap. (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	IR (mArms, 105°C, 100KHz)
6.3	220	5×11	0.22	0.22	345
	470	6.3×11	0.22	0.094	540
	820	8×12	0.22	0.056	945
	1200	8×16	0.22	0.045	1250
	1200	10×12	0.22	0.039	1330
	1500	8×20	0.22	0.029	1500
	1800	10×16	0.22	0.028	1760
	2200	10×20	0.24	0.020	1960
	2700	10×25	0.24	0.018	2250
	3900	13×20	0.26	0.017	2480
	4700	13×25	0.26	0.015	2900
	5600	13×30	0.28	0.013	3450
	6800	13×35	0.28	0.012	3570
	6800	16×20	0.28	0.015	3250
	8200	16×25	0.30	0.013	3630
	10000	18×25	0.32	0.012	3650
10	150	5×11	0.19	0.22	345
	330	6.3×11	0.19	0.094	540
	680	8×12	0.19	0.056	945
	1000	8×16	0.19	0.045	1250
	1000	10×12	0.19	0.039	1330
	1500	8×20	0.19	0.029	1500
	1500	10×16	0.19	0.028	1760
	1800	10×20	0.19	0.020	1960
	2200	10×25	0.21	0.018	2250
	3300	13×20	0.23	0.017	2480
	3900	13×25	0.23	0.015	2900
	4700	13×30	0.25	0.013	3450
	4700	16×20	0.25	0.015	3250
	5600	13×35	0.27	0.012	3570
	6800	16×25	0.29	0.013	3630
	6800	18×25	0.29	0.012	3650
16	100	5×11	0.16	0.22	345
	220	6.3×11	0.16	0.094	540
	470	8×12	0.16	0.056	945
	680	8×16	0.16	0.045	1250
	1000	8×20	0.16	0.029	1500
	1000	10×16	0.16	0.028	1760

Voltage (V)	Cap. (μF)	Size ΦD×L (mm)	tan δ	Z (Ω, 25°C, 100KHz)	IR (mArms, 105°C, 100KHz)
16	1500	10×20	0.16	0.020	1960
	1800	10×25	0.16	0.018	2250
	2200	13×20	0.18	0.017	2480
	2700	13×25	0.18	0.015	2900
	3300	13×30	0.20	0.013	3450
	3900	13×35	0.20	0.012	3570
	4700	16×25	0.22	0.013	3630
	5600	18×25	0.24	0.012	3650
25	68	5×11	0.14	0.22	345
	150	6.3×11	0.14	0.094	540
	330	8×12	0.14	0.056	945
	470	10×12	0.14	0.039	1330
	560	8×20	0.14	0.029	1500
	680	10×16	0.14	0.028	1760
	820	10×20	0.14	0.020	1960
	1000	10×20	0.14	0.018	2250
	1500	13×20	0.14	0.017	2480
	1800	13×25	0.14	0.015	2900
	2200	13×30	0.16	0.013	3450
	2700	13×35	0.16	0.012	3570
	3300	16×25	0.18	0.013	3630
	3900	18×25	0.18	0.012	3650
	35	47	5×11	0.12	0.22
100		6.3×11	0.12	0.094	540
220		8×12	0.12	0.056	945
330		10×12	0.12	0.039	1330
470		10×16	0.12	0.029	1500
560		10×20	0.12	0.020	1760
680		10×25	0.12	0.018	1960
1000		13×20	0.12	0.017	2480
1200		13×25	0.12	0.013	2900
1500		13×30	0.12	0.013	3450
1500		16×20	0.12	0.015	3250
1800		13×35	0.12	0.012	3570
2200		16×25	0.14	0.013	3630
2700		18×25	0.14	0.012	3650

◆ **Ripple Current Multiplier**

Frequency Coefficient

Frequency (Hz)	100/120	1K	10K	100K
47~180μF	0.40	0.75	0.90	1.00
220~560μF	0.50	0.85	0.94	1.00
680~1800μF	0.60	0.87	0.95	1.00
2200~3900μF	0.75	0.90	0.95	1.00
4700~10000μF	0.85	0.95	0.98	1.00