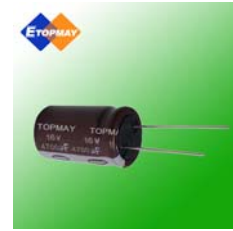




Features

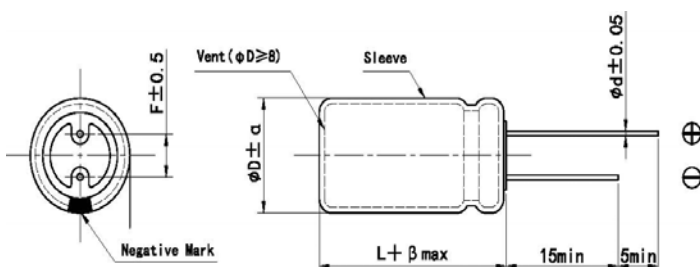
- 125°C, 2000 hours
- Designed for energy-saving lamps, automobile modules and other high temperature applications.



◆ Specifications

Items	Characteristics																		
Rated Voltage Range	6.3~450V.DC																		
Operating Temperature Rang	-55~+125°C (6.3V~63V) ; -40~+125°C (80V~450V)																		
Capacitance Tolerance	±20%(M) (25°C,100 or 120Hz)																		
Leakage Current	$I \leq 0.02 CV$ or $3(\mu A)$ (6.3V~100V) $I \leq 0.03 CV + 10(\mu A)$ (160V~450V) Where, I: max.leakage current(μA), C: Nominal capacitance(μF), V: Rated voltage(V)(At 25°C after 2 minutes)																		
Dissipation Factor $\tan\delta$	(25°C, 100 or 120Hz) <table border="1"> <thead> <tr> <th>Rated voltage(V_{DC})</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50~100</th> <th>160~250</th> <th>350~450</th> </tr> </thead> <tbody> <tr> <td>$\tan\delta(\text{Max.})$</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.12</td> <td>0.15</td> </tr> </tbody> </table> <p>When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.</p>	Rated voltage(V_{DC})	6.3	10	16	25	35	50~100	160~250	350~450	$\tan\delta(\text{Max.})$	0.24	0.20	0.16	0.14	0.12	0.10	0.12	0.15
Rated voltage(V_{DC})	6.3	10	16	25	35	50~100	160~250	350~450											
$\tan\delta(\text{Max.})$	0.24	0.20	0.16	0.14	0.12	0.10	0.12	0.15											
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"> <thead> <tr> <th>Rated voltage(V_{DC})</th> <th>6.3~16</th> <th>25~63</th> <th>80~100</th> <th>160~250</th> <th>350~450</th> </tr> </thead> <tbody> <tr> <td>$Z_{-40^\circ C}/Z_{+20^\circ C}$</td> <td>/</td> <td>/</td> <td>4</td> <td>6</td> <td>10</td> </tr> <tr> <td>$Z_{-55^\circ C}/Z_{+20^\circ C}$</td> <td>5</td> <td>4</td> <td>/</td> <td>/</td> <td>/</td> </tr> </tbody> </table> <p>When nominal capacitance exceeds 1000μF, add 1 to the value above for each 1000μF increase.</p>	Rated voltage(V_{DC})	6.3~16	25~63	80~100	160~250	350~450	$Z_{-40^\circ C}/Z_{+20^\circ C}$	/	/	4	6	10	$Z_{-55^\circ C}/Z_{+20^\circ C}$	5	4	/	/	/
Rated voltage(V_{DC})	6.3~16	25~63	80~100	160~250	350~450														
$Z_{-40^\circ C}/Z_{+20^\circ C}$	/	/	4	6	10														
$Z_{-55^\circ C}/Z_{+20^\circ C}$	5	4	/	/	/														
Shelf Life	After storage at 125°C for 1000 hours, the capacitors shall meet the following requirements. (500 hours for 350V~450V) <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>$\leq \pm 20\%$ of the initial value</td> </tr> <tr> <td>D.F.($\tan\delta$)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>$\leq 500\%$ of the initial specified value</td> </tr> </tbody> </table>	Capacitance Change	$\leq \pm 20\%$ of the initial value	D.F.($\tan\delta$)	$\leq 200\%$ of the initial specified value	Leakage Current	$\leq 500\%$ of the initial specified value												
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D.F.($\tan\delta$)	$\leq 200\%$ of the initial specified value																		
Leakage Current	$\leq 500\%$ of the initial specified value																		
Load Life	After application of rated voltage with rated ripple current for the 2000hours at +125°C, the capacitors shall meet the following limits. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>$\leq \pm 20\%$ of the initial value</td> </tr> <tr> <td>D.F.($\tan\delta$)</td> <td>$\leq 200\%$ of the initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>\leq the Initial specified value</td> </tr> </tbody> </table>	Capacitance Change	$\leq \pm 20\%$ of the initial value	D.F.($\tan\delta$)	$\leq 200\%$ of the initial specified value	Leakage Current	\leq the Initial specified value												
Capacitance Change	$\leq \pm 20\%$ of the initial value																		
D.F.($\tan\delta$)	$\leq 200\%$ of the initial specified value																		
Leakage Current	\leq the Initial specified value																		
Others	Meet Q/RME 40-2008, GB/T 5993-2003																		

◆ Dimensions



mm

D	8	10	13	16
d	0.5	0.6	0.8	
F	3.5	5.0	7.5	
α	0.5			
β	2.0			



◆ Size and Max Ripple Current

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	IR (mArms, 125°C, 100KHz)
10	220	8×12	0.20	0.32	340
	330	10×12	0.20	0.15	620
	470	10×12	0.20	0.15	620
	1000	10×20	0.20	0.075	950
	2200	13×25	0.22	0.040	1350
	3300	16×25	0.24	0.031	1620
	4700	16×30	0.26	0.025	1860
16	100	8×12	0.16	0.32	340
	220	10×12	0.16	0.15	620
	330	10×12	0.16	0.15	620
	470	10×16	0.16	0.094	790
	1000	13×20	0.16	0.058	1080
	2200	16×25	0.18	0.031	1620
	3300	16×30	0.20	0.025	1860
25	100	8×12	0.14	0.32	340
	220	10×12	0.14	0.15	620
	330	10×16	0.14	0.094	790
	470	10×20	0.14	0.075	950
	1000	13×25	0.14	0.040	1350
	2200	16×30	0.16	0.025	1860
35	100	8×12	0.12	0.32	340
	100	10×12	0.12	0.15	620
	220	10×16	0.12	0.094	790
	330	10×20	0.12	0.075	950
	470	13×20	0.12	0.058	1080
	1000	16×25	0.12	0.031	1620
50	10	8×12	0.10	0.75	180
	22	8×12	0.10	0.50	250
	33	8×12	0.10	0.50	280

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tanδ	Z (Ω, 25°C, 100KHz)	IR (mArms, 125°C, 100KHz)
50	47	8×12	0.10	0.50	280
	100	10×12	0.10	0.20	520
	220	10×20	0.10	0.098	880
	330	13×20	0.10	0.081	990
	470	13×25	0.10	0.059	1150
	1000	16×30	0.10	0.032	1590
	63	33	8×12	0.10	1.5
47		10×12	0.10	0.59	530
100		10×16	0.10	0.41	690
220		13×20	0.10	0.16	1050
330		13×25	0.10	0.12	1290
470		13×30	0.10	0.097	1460
1000		16×30	0.10	0.059	1850
80	22	8×12	0.10	1.5	150
	33	10×12	0.10	0.80	480
	47	10×12	0.10	0.80	480
	100	10×20	0.10	0.39	790
	220	13×25	0.10	0.18	1240
	330	13×30	0.10	0.16	1390
	470	16×25	0.10	0.11	1500
100	4.7	8×12	0.10	2.0	130
	10	8×12	0.10	1.5	150
	22	10×12	0.10	0.80	480
	33	10×12	0.10	0.80	480
	47	10×16	0.10	0.55	630
	100	13×20	0.10	0.25	990
	220	16×25	0.10	0.11	1500
	330	16×30	0.10	0.079	1790



◆ Size and Max Ripple Current

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tanδ	IR (mArms, 125°C, 120Hz)
160	22	10×20	0.12	115
	33	10×25	0.12	154
	47	13×20	0.12	187
	68	13×25	0.12	245
	100	16×25	0.12	329
	150	16×30	0.12	434
200	10	10×20	0.12	78
	22	10×25	0.12	126
	33	13×20	0.12	157
	47	13×25	0.12	204
	68	16×20	0.12	250
	100	16×25	0.12	329
250	10	10×20	0.12	78
	22	13×20	0.12	128
	33	13×25	0.12	171
	47	16×25	0.12	225
	68	16×30	0.12	292

Voltage (V)	Capacitance (μF)	Size ΦD×L (mm)	tanδ	IR (mArms, 125°C, 120Hz)
350	4.7	10×20	0.15	53
	10	10×25	0.15	85
	22	13×25	0.15	139
	33	16×25	0.15	189
	47	16×30	0.15	243
	400	4.7	10×20	0.15
10		10×25	0.15	86
22		13×30	0.15	142
33		16×25	0.15	189
47		16×30	0.15	243
450	4.7	10×25	0.15	58
	10	13×20	0.15	86
	22	16×25	0.15	154
	33	16×30	0.15	203

◆ Ripple Current Multiplier

Frequency Coefficient

10V~100V:

Frequency (Hz)	50/60	100/120	1K	10K	100K
4.7μF~100μF	0.35	0.40	0.75	0.90	1.00
220μF~470μF	0.45	0.50	0.85	0.94	1.00
1000μF	0.50	0.60	0.87	0.95	1.00
2200μF~3300μF	0.55	0.75	0.90	0.95	1.00
4700μF	0.60	0.85	0.95	0.98	1.00

160V~450V:

Frequency (Hz)	50/60	100/120	1K	10K	100K
4.7μF~33μF	0.75	1.00	1.50	1.75	1.80
47μF~150μF	0.80	1.00	1.30	1.40	1.50