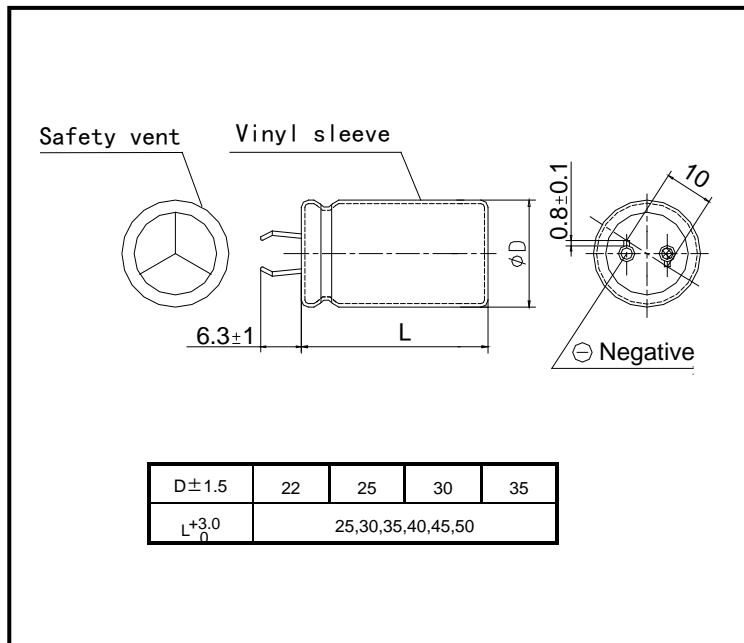


- Load life of 2000 hours at +85°C
- high ripple current
- Smaller size, PCB mounting

## Specifications

Item	Characteristics																																								
Operating temperature range(°C)	-40~+85	-25~+85																																							
Rated voltage range(V)	10~400	450~500																																							
Nominal capacitance range(μF)	68~82000																																								
Capacitance tolerance(%)	±20 (20°C,120Hz)																																								
Leakage current	$I \leq 0.03C_R U_R$ (μA) or 3mA (Whichever is smaller)																																								
Dissipation factor(tg δ)	<table border="1"> <thead> <tr> <th><math>U_R</math>(V) \ Cap(μF)</th> <th>10~16</th> <th>25</th> <th>35~50</th> <th>63</th> <th>80~100</th> </tr> </thead> <tbody> <tr> <td>≤2700</td> <td>—</td> <td>—</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> </tr> <tr> <td>3300~4700</td> <td>—</td> <td>0.35</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> </tr> <tr> <td>5600~6800</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.20</td> <td>0.20</td> </tr> <tr> <td>≥8200</td> <td>0.40</td> <td>0.35</td> <td>0.35</td> <td>0.25</td> <td>—</td> </tr> </tbody> </table>	$U_R$ (V) \ Cap(μF)	10~16	25	35~50	63	80~100	≤2700	—	—	0.20	0.15	0.15	3300~4700	—	0.35	0.25	0.20	0.15	5600~6800	0.40	0.35	0.30	0.20	0.20	≥8200	0.40	0.35	0.35	0.25	—	<table border="1"> <thead> <tr> <th><math>U_R</math>(V) \ φD(mm)</th> <th>160~200</th> <th>250~500</th> </tr> </thead> <tbody> <tr> <td>22~30</td> <td>0.10</td> <td>0.15</td> </tr> <tr> <td>35</td> <td>0.12</td> <td>0.15</td> </tr> </tbody> </table>	$U_R$ (V) \ φD(mm)	160~200	250~500	22~30	0.10	0.15	35	0.12	0.15
	$U_R$ (V) \ Cap(μF)	10~16	25	35~50	63	80~100																																			
≤2700	—	—	0.20	0.15	0.15																																				
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(20°C,120Hz)																																									
Temperature characteristics	<table border="1"> <thead> <tr> <th><math>U_R</math>(V)</th> <th>10</th> <th>10~35</th> <th>50~100</th> <th>160~200</th> <th>250~400</th> <th>450~500</th> </tr> </thead> <tbody> <tr> <td>Z-25°C/Z+20°C</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>18</td> <td>15</td> <td>10</td> <td>6</td> <td>8</td> <td>—</td> </tr> </tbody> </table>							$U_R$ (V)	10	10~35	50~100	160~200	250~400	450~500	Z-25°C/Z+20°C	5	4	3	3	4	4	Z-40°C/Z+20°C	18	15	10	6	8	—													
	$U_R$ (V)	10	10~35	50~100	160~200	250~400	450~500																																		
Z-25°C/Z+20°C	5	4	3	3	4	4																																			
Z-40°C/Z+20°C	18	15	10	6	8	—																																			
(120Hz)																																									
Load life (+85°C)	Time		2000 hours																																						
	Capacitance change		Within ±20% of the initial value																																						
	Leakage current		Not more than the Initial specified value																																						
	Dissipation factor		Not more than 200% of the Initial specified value																																						
Shelf life (+85°C)	Time		1000 hours																																						
	Capacitance change		Within ±20% of the initial value																																						
	Leakage current		Not more than the Initial specified value																																						
	Dissipation factor		Not more than 200% of the Initial specified value																																						
After test: $U_R$ to be applied for 30 minutes, 24 to 48 hours before measurement.																																									

## Case size table



## multiplier for ripple current

### Frequency Coefficient

$U_R$ (V) \ Freq(Hz)	50.60	120	1K	10K	100K
≤50	0.95	1.00	1.10	1.15	1.15
63~100	0.95	1.00	1.16	1.30	1.33
≥160	0.95	1.00	1.20	1.50	1.55

### Temperature coefficient

$U_R$ (V) \ Temperature(°C)	+40	+55	+70	+85
<160	2.1	1.8	1.5	1.0
≥160	1.7	1.5	1.3	1.0

## ■ Nominal capacitance, rated voltage, rated ripple current and case size table

U <sub>R</sub> (V)	10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		80(1K)		100(2A)	
	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*
φ22×25	10000	2.5	8200	2.2	5600	2.0	3300	1.8	2200	1.7	1500	1.6	1000	1.3	680	1.1
φ22×30	15000	3.2	10000	2.6	6800	2.3	3900	2.1	2700	1.9	2200	2.0	1200	1.5	820	1.2
φ22×35	18000	3.6	12000	2.9	8200	2.6	5600	2.3	3900	2.1	2700	2.2	1800	1.9	1200	1.6
φ22×40	22000	4.0	15000	3.3	10000	2.9	6800	2.9	4700	2.4	3300	2.3	2200	2.1	1500	1.8
φ22×45	—	—	18000	3.8	12000	3.3	—	—	—	—	3900	2.5	—	—	—	—
φ22×50	—	—	22000	4.2	—	—	8200	2.8	5600	2.5	—	—	2700	2.5	1800	2.1
φ25×25	15000	3.1	10000	2.6	6800	2.3	4700	2.2	2700	1.9	2200	2.0	1500	1.7	1000	1.4
φ25×30	18000	3.6	15000	3.3	10000	2.8	5600	2.3	3900	2.1	2700	2.3	1800	1.9	1200	1.6
φ25×35	22000	4.1	18000	3.7	12000	3.2	6800	2.6	4700	2.4	3300	2.3	2200	2.2	1500	1.7
φ25×40	33000	4.6	22000	4.2	15000	3.7	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.0
φ25×45	39000	5.2	27000	5.0	—	—	10000	3.1	6800	2.8	5600	3.1	3300	2.8	2200	2.2
φ25×50	47000	5.8	—	—	18000	4.3	12000	3.5	8200	3.2	6800	3.6	3900	3.1	2700	2.6
φ30×25	22000	4.1	15000	3.4	10000	3.0	6800	2.7	3900	2.4	3300	2.3	2200	2.2	1500	1.8
φ30×30	33000	4.8	22000	4.2	12000	3.4	8200	2.8	5600	2.5	3900	2.6	2700	2.5	1800	2.1
φ30×35	39000	5.3	27000	5.0	18000	4.2	10000	3.2	6800	2.8	5600	3.2	3300	2.8	2200	2.3
φ30×40	47000	6.0	33000	5.6	22000	4.8	12000	3.5	8200	3.0	6800	3.6	3900	3.2	2700	2.7
φ30×45	56000	6.7	39000	6.2	—	—	15000	4.1	10000	3.4	—	—	4700	3.6	3300	3.0
φ30×50	68000	7.5	47000	7.0	—	—	18000	4.6	12000	3.8	8200	3.7	5600	3.5	3900	3.4
φ35×25	33000	4.8	22000	4.4	15000	3.9	8200	2.9	5600	2.6	3900	2.7	2700	2.5	1800	2.2
φ35×30	47000	6.0	33000	5.6	18000	4.4	12000	3.6	8200	3.0	5600	3.3	3900	3.2	2200	2.5
φ35×35	56000	6.8	39000	6.3	22000	5.0	15000	4.1	10000	3.4	6800	3.7	4700	3.5	3300	3.1
φ35×40	68000	7.7	47000	7.2	33000	6.5	18000	4.7	12000	3.8	8200	3.8	5600	3.6	3900	3.4
φ35×45	82000	8.7	56000	8.0	39000	7.5	22000	5.3	—	—	10000	4.3	—	—	—	—
φ35×50	—	—	—	—	—	—	27000	7.0	15000	4.5	12000	4.8	6800	4.1	4700	4.0

U <sub>R</sub> (V)	160 (2C)		180 (2B)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450(2W)		500(2H)	
	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*	C <sub>R</sub> (μF)	I(A)*
φ22×25	330	1.3	270	1.2	220	1.1	180	0.94	82	0.65	68	0.55	—	—	—	—
φ22×30	390	1.5	330	1.4	330	1.4	220	1.1	120	0.82	100	0.7	68	0.57	—	—
φ22×35	560	1.9	470	1.7	390	1.6	270	1.2	150	0.94	120	0.79	100	0.72	—	—
φ22×40	680	2.1	560	1.9	470	1.8	330	1.4	180	1.1	150	0.9	120	0.80	—	—
φ22×45	—	—	—	—	560	2.0	390	1.6	220	1.2	180	1.0	—	—	—	—
φ22×50	820	2.5	680	2.3	—	—	470	1.8	—	—	220	1.1	150	0.95	—	—
φ25×25	390	1.5	390	1.5	330	1.4	220	1.1	120	0.81	100	0.7	—	—	—	—
φ25×30	560	1.9	470	1.7	390	1.6	330	1.4	150	0.94	150	0.89	100	0.73	—	—
φ25×35	680	2.2	560	2.0	560	2.0	390	1.6	220	1.2	180	1.0	120	0.83	—	—
φ25×40	820	2.4	680	2.2	680	2.3	470	1.8	—	—	220	1.2	150	0.95	—	—
φ25×45	1000	2.7	820	2.5	—	—	560	2.0	270	1.4	270	1.3	180	1.1	—	—
φ25×50	1200	3.1	1000	2.9	820	2.6	—	—	330	1.6	—	—	220	1.2	—	—
φ30×25	560	2.0	470	1.8	470	1.9	330	1.5	180	1.1	150	0.95	—	—	100	0.9
φ30×30	820	2.5	680	2.3	560	2.1	470	1.8	220	1.2	180	1.1	150	0.98	120	1.0
φ30×35	1000	2.8	820	2.6	680	2.4	560	2.0	270	1.4	220	1.2	180	1.1	150	1.2
φ30×40	1200	3.2	1000	2.9	820	2.7	680	2.3	390	1.7	270	1.4	220	1.3	180	1.4
φ30×45	1500	3.7	1200	3.3	1000	3.1	820	2.6	470	2.0	330	1.6	270	1.4	220	1.6
φ30×50	—	—	—	—	1200	3.4	—	—	—	—	390	1.8	—	—	270	1.8
φ35×25	820	2.4	680	2.2	560	2.0	470	2.4	220	1.3	180	1.2	180	1.2	120	1.0
φ35×30	1000	2.7	820	2.5	820	2.5	680	2.6	330	1.6	270	1.5	220	1.3	180	1.3
φ35×35	1200	3.0	1200	3.1	1000	2.8	820	2.6	390	1.8	330	1.7	270	1.5	220	1.5
φ35×40	1500	3.5	—	—	1200	3.2	1000	3.0	470	2.0	390	1.8	—	—	270	1.7
φ35×45	1800	3.9	1500	3.6	—	—	1200	3.4	560	2.3	470	2.1	390	1.9	330	2.0
φ35×50	2200	4.5	1800	4.1	1500	3.8	—	—	680	2.6	560	2.3	470	2.2	390	2.3

\* I-Rated ripple current (+85°C, 120Hz)