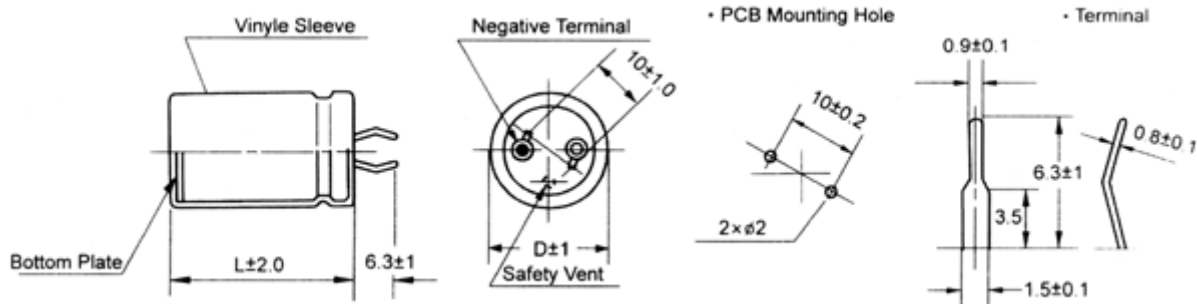


FEATURES:

- 85 °C standard, snap-in terminal
- Ideal for switching power supplies
- Low ESR, Low Dissipation
- High and stable quality
- Load life of 1000 hours at 85 °C

L CASE SIZES AND DIMENSIONS:



SPECIFICATIONS:

ITEM	TYPE QA												
Operating Temperature Range	10p100 V: -40 °C ~ + 85 °C						160p450 V: -25 °C to + 85°C						
Capacitance tolerance	± 20% at 120 Hz, 20 °C												
D.C. Leakage current (I = DC Current in mA max.)	I ≤ 0.03 CV, or 3 mA whichever is smaller, measured after 5 minutes application of rated working voltage Where C = Rate Capacitance (μF), V = Rated Working Voltage (V DC)												
Working Voltage (DC)	10 V	16 V	25 V	35 V	50 V	63 V	100 V	160 V	200 V	250 V	350 V	400 V	450 V
Surge Voltage (DC)	13 V	20 V	32 V	40 V	63 V	79 V	125 V	200 V	250 V	300 V	400 V	450 V	500 V
Dissipation Factor (at d) max. at 120 Hz)	W.V	10 V	16 V	25 V	35 V	50~63 V	100 V	160~250 V	350~450 V				
	CV m 100,000	0.50	0.40	0.35	0.25	0.25	0.2	0.20	0.25				
Impedance Ratio at Low Temperature at 120 Hz	CV L 100,000	0.60	0.50	0.45	0.35	0.30	0.25	0.20	0.25				
	W.V	10 ~ 100V			160 ~ 250V			350 ~ 450V					
	Z@ -25 °C / Z@ +20°C	4			6			8					
Load Life Test (after 1000 hours application of the rated voltage at 85 °C)	Z@ -40 °C / Z@ +20°C	15			-			-					
	The capacitor shall meet following limits:												
	Capacitance Change	≤ 20% of initial value											
Leakage Current	≤ specified maximum value												
Dissipation Factor	≤ 150% of specified maximum value												
Shelf life (after 1000 hours exposing at 85° C without voltage applied)	The capacitor shall meet following limits:												
	Capacitance Change	≤ 20% of initial value											
	Leakage Current	≤ specified maximum value											
	Dissipation Factor	≤ 200% of specified maximum value											

CASE SIZE: (D u L mm), permissible ripple current (A rms, at 120 Hz, 85° C) & max. E.S.R. (Ω at 120 Hz, 20° C)SIZE:

W.V.	10 V			16 V			25 V			35 V		
μ F	D x L	E.S.R.	R.C.	D x L	E.S.R.	R.C.	D x L	E.S.R.	R.C.	D x L	E.S.R.	R.C.
3300							22x27	2.03	0.176	22x27	2.04	0.176
							25x27	2.09	0.176	22x27	2.10	0.176
4700				22x27	1.81	0.141	22x32	2.49	0.156	22x32	2.41	0.123
				25x27	2.21	0.141	25x27	2.31	0.159	30x27	2.44	0.123
6800				22x29	2.40	0.122	22x36	2.87	0.110	22x40	2.98	0.085
				25x29	2.47	0.122	30x27	2.72	0.110	30x32	2.86	0.085
8200	22x27	2.39	0.101	22x32	2.70	0.101	22x40	3.16	0.091	22x46	3.25	0.071
	25x27	2.46	0.101	30x29	3.73	0.101	30x32	3.03	0.091	35x32	3.42	0.071
10000	22x32	2.69	0.083	22x36	3.00	0.083	22x46	3.45	0.075	25x46	3.41	0.058
	25x27	2.57	0.083	30x27	2.84	0.083	30x32	3.14	0.075	35x32	3.51	0.058
12000	22x32	2.81	0.083	22x40	3.30	0.069	22x50	3.74	0.062	25x50	3x68	0.048
	30x27	2.84	0.083	30x32	3.15	0.069	35x32	3.75	0.062	35x36	3.84	0.048
15000	22x36	3.14	0.066	22x46	3.62	0.055	25x45	3.78	0.050	30x46	4.08	0.039
	30x25	2.97	0.066	35x27	3.55	0.055	35x32	3.80	0.050	30x46	4.08	0.039
22000	22x47	3.79	0.045	25x46	4.25	0.038	30x50	4.94	0.034			
	30x32	3.45	0.045	25x32	4.37	0.038	30x50	4.94	0.034			

CASE SIZE: (D u L mm), permissible ripple current (A rms, at 120 Hz, 85° C) & max. E.S.R. (Ω at 120 Hz, 20° C)

W.V.	50 V			63 V			100 V			160 V		
μ F	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.
330										22x27	1.11	1.005
										25x27	1.14	1.005
470										22x36	1.53	0.705
										30x27	1.45	0.705
560										22x36	1.67	0.592
										30x27	1.58	0.592
680										22x40	1.95	0.488
										30x32	1.87	0.488
820							22x32	1.55	0.404	22x50	2.36	0.404
							25x27	1.54	0.404	30x32	2.05	0.404
1000				22x27	1.42	0.414	22x32	1.71	0.332	25x46	2.55	0.332
				25x27	1.46	0.414	30x27	2.20	0.332	35x32	2.62	0.332
1500				22x27	1.74	0.276	22x40	2.38	0.276	30x46	3.28	0.221
				30x27	1.81	0.276	30x32	2.54	0.276	30x46	3.28	0.221
2200	22x27	1.92	0.226	22x32	2.08	0.226	22x46	2.77	0.188			
	25x27	1.98	0.226	30x39	2.10	0.226	35x32	3.07	0.188			
3300	22x36	2.51	0.151	22x46	2.81	0.151	30x46	3.27	0.126			
	30x37	2.38	0.151	35x39	2.76	0.151	30x46	3.27	0.126			
4700	22x40	2.89	0.106	25x46	3.11	0.106						

	35x37	2.99	0.106	35x32	3.20	0.106						
6800	25x40	3.37	0.073	30x46	3.54	0.073						
	35x32	3.46	0.073	30x46	3.54	0.073						
8200	25x50	3.62	0.061									
	35x36	3.79	0.061									
10000	30x46	3.72	0.050									
	30x46	3.72	0.050									

L CASE SIZE: (D u L mm), permissible ripple current (A rms, at 120 Hz, 85° C) & max. E.S.R. (Ω at 120 Hz, 20° C)

W.V.	200 V			250 V			350 V			400 V			
	μ F	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.	D x L	R.C.	E.S.R.
47											22x27	0.43	8818
											25x27	0.45	8818
100							22x32	0.66	4.145	22x32	0.68	4145	
							25x27	0.63	4.145	25x27	0.65	4145	
150							22x36	0.86	2.763	22x40	0.95	2763	
							30x27	0.82	2.763	30x27	0.85	2763	
220	22x27	0.97	1.057	22x32	1.14	1.507	22x46	1.17	1.884	22x50	1.27	1884	
	25x27	1.00	1.057	25x27	1.09	1.507	30x32	1.06	1.884	30x36	1.17	1884	
330	22x32	1.29	1.005	22x40	1.58	1.005	25x50	1.53	1.256	30x46	1.59	1256	
	25x27	1.23	1.005	30x27	1.42	1.005	35x36	1.60	1.256	35x36	1.65	1256	
470	22x40	1.74	0.705	22x50	2.09	0.705	30x50	1.92	0.882	35x46	2.19	0.882	
	30x27	1.55	0.705	30x36	1.93	0.705	35x40	2.01	0.882	35x46	2.19	0.882	
560	22x46	2.00	0.592	25x46	2.29	0.592	35x46	2.31	0.740				
	30x32	1.82	0.592	35x32	2.22	0.592	35x46	2.31	0.740				
680	25x40	2.14	0.488	30x40	2.45	0.488							
	30x36	2.14	0.488	35x36	2.68	0.488							
820	25x50	2.59	0.404	30x46	2.83	0.404							
	35x32	2.55	0.404	35x40	3.11	0.404							
1000	30x46	2.87	0.332	35x46	3.60	0.332							
	35x36	2.99	0.332	35x46	3.60	0.332							
1500	35x50	4.24	0.221										
	35x50	4.24	0.221										

W.V.	450 V		
	μ F	D x L	E.S.R.
47		22x25	0.36
		25x25	0.37
100		22x35	0.61
		25x30	0.59
150		22x50	0.88
		30x30	0.76
220		25x50	1.06
		35x35	1.13
330		35x45	1.53
		35x45	1.53