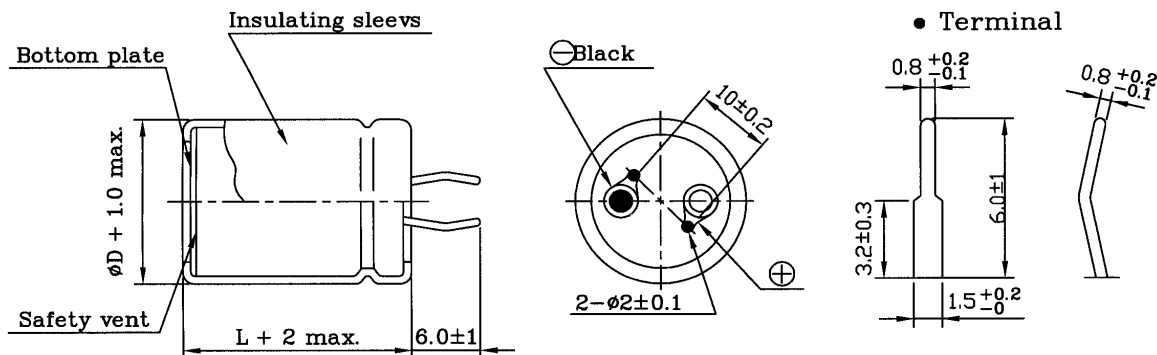


- 105°C 5000 hours assured life.
- Directly mountable on printed circuit board without holders.
- Low ESR and long life.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed explosion-proof vent.

Characteristics

Voltage Range	10 ~ 100V		160 ~ 400V					
Capacitance Range	560 ~ 47000uF		68 ~ 1500uF					
Temperature Range	-40 ~ +105°C		-25 ~ +105°C					
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)							
Leakage Current	$I=3\sqrt{CV}$ uA max C: Capacitance, V:W.V. (After 5 minutes)							
Dissipation Factor (tan δ)	Rated voltage	10	16	25	35	50	63 ~ 100	160 ~ 400
	tan δ	0.55	0.40	0.30	0.25	0.20	0.15	0.15
at 20°C, 120Hz								
Stability at Low Temperature	Impedance ration at 120Hz between the -25°C or -40°C value and 20°C value shall not exceed the values given below.							
	Rated Voltage (V)	10, 16	25	35	50, 63	80, 00	160 ~ 350	
	Z-25°C/Z 20°C	4	3	3	2	2	4	
	Z-40°C/Z 20°C	15	10	8	6	5	-	
Load Life	The following specifications shall satisfied when the capacitors are restored to 20°C after rated working voltage applied for 5,000 hours at max. Operating temperature with the rated ripple current applied.							
	Capacitance change	≤ ±25% of the initial value.						
	Dissipation factor	≤ ±250% of the initial specified value						
	Leakage current	≤ The initial specified value.						
Shelf Life	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life.							

Diagram of dimensions



Multiplier for Ripple Current VS Frequency

Rated Voltage \ (Hz)	50/60	120	300	1K	10K	50K
10 ~ 50 VDC	0.95	1	1.03	1.05	1.08	1.08
63 ~ 100 VDC	0.93	1	1.07	1.13	1.19	1.20
160 ~ 250 VDC	0.81	1	1.17	1.32	1.45	1.50
350 ~ 400 VDC	0.77	1	1.16	1.30	1.41	1.43

Standard Products Table

W.V(DC)	CAP. (μF)	Ripple Current A max. 105°C, 120Hz	Dimensions A		Dimensions B		Dimensions C	
			D φ	L	D φ	L	D φ	L
10	6800	1.30	22	25	-		-	
	10000	1.60	22	30	25	25	-	
	15000	2.10	22	35	25	30	-	
	22000	2.75	22	40	25	35	30	30
	33000	3.40	25	50	30	40	35	35
	47000	4.60	30	50	-		-	
16	4700	1.30	22	25	-		-	
	6800	1.60	22	30	25	25	-	
	10000	2.10	22	40	25	30	-	
	15000	2.70	22	50	25	40	30	30
	22000	3.40	25	50	30	40	35	35
	33000	4.32	30	50	35	40	-	
25	3300	1.10	22	25	-		-	
	4700	1.50	22	30	25	25	-	
	6800	1.87	22	40	25	30	-	
	10000	2.35	22	50	25	40	30	35
	15000	3.15	30	40	35	35	-	
	22000	3.90	35	45	-		-	
35	2200	1.10	22	25	-		-	
	3300	1.40	22	30	25	25	-	
	4700	1.75	22	40	25	30	-	
	6800	2.20	22	50	25	40	30	35
	10000	2.80	30	40	35	35	-	
	15000	4.25	35	50	-		-	
50	2200	1.30	22	35	25	25	-	
	3300	1.70	22	40	25	35	30	30
	4700	2.10	25	40	30	35	-	
	6800	2.70	30	50	35	40	-	
	10000	3.50	35	50	-		-	
63	1000	1.00	22	25	-		-	
	1500	1.30	22	35	25	30	-	
	2200	1.65	25	35	30	30	-	
	3300	2.15	25	50	30	35	-	
	4700	2.70	30	50	35	40	-	
	6800	3.50	35	50	-		-	
80	680	0.95	22	25	-		-	
	1000	1.20	22	35	25	25	-	
	1500	1.60	22	45	25	35	-	
	2200	2.05	25	50	30	35	-	
	3300	2.70	30	50	35	40	-	
	4700	3.40	35	50	-		-	

Standard Products Table

W.V(DC)	CAP. (μF)	Ripple Current A max. 105°C, 120Hz	Dimensions A		Dimensions B		Dimensions C	
			D φ	L	D φ	L	D φ	L
100	680	1.10	22	35	25	30	-	-
	1000	1.40	22	50	30	30	-	-
	1500	1.85	25	50	30	40	-	-
	2200	2.40	35	50	30	40	-	-
160	220	0.50	22	25	-	-	-	-
	330	0.80	22	35	25	25	-	-
	470	1.10	22	45	25	35	30	30
	680	1.30	25	45	30	35	-	-
	1000	1.69	30	45	35	35	-	-
200	1500	2.40	35	50	-	-	-	-
	220	0.65	22	30	-	-	-	-
	330	0.78	22	40	25	30	-	-
	470	1.15	22	50	25	40	30	30
	680	1.45	25	50	30	40	-	-
250	1000	1.90	30	50	35	40	-	-
	150	0.52	22	25	-	-	-	-
	220	0.75	22	35	25	30	-	-
	330	1.00	22	45	25	35	30	30
	470	1.20	25	50	30	35	-	-
	680	1.55	30	50	35	40	-	-
350	1000	2.00	35	50	-	-	-	-
	68	0.34	22	25	-	-	-	-
	100	0.50	22	35	25	25	-	-
	150	0.63	22	45	25	35	30	30
	220	0.82	25	50	30	35	-	-
	330	1.10	30	50	35	40	-	-
400	470	1.30	35	50	-	-	-	-
	47	0.30	22	25	-	-	-	-
	68	0.40	22	30	25	25	-	-
	100	0.50	22	40	25	30	-	-
	150	0.65	22	50	25	40	30	35
	220	0.85	25	50	30	40	35	35
	330	1.10	35	45	-	-	-	-
390	1.20	35	50	-	-	-	-	