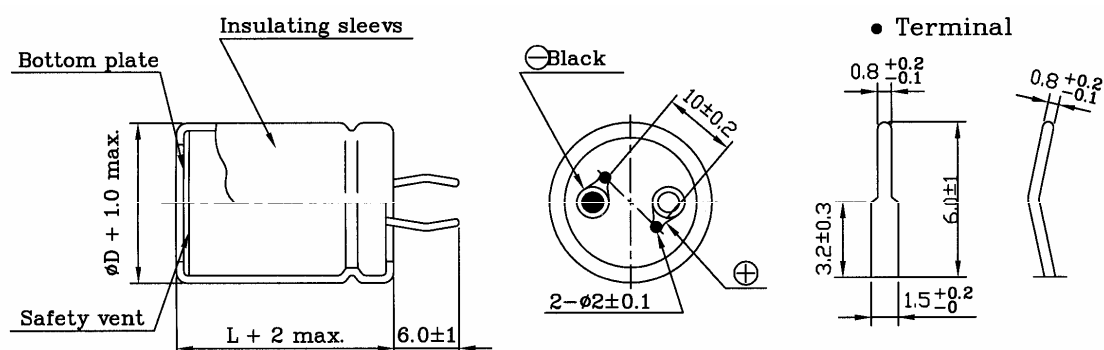


- Directly mountable on printed circuit board without holders.
- Smaller low profile sizes than ordinary capacitors.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed explosion-proof vent.

Characteristics

Voltage Range	16 ~ 100V				160 ~ 450V		
Capacitance Range	470 ~ 47000uF				47 ~ 2200uF		
Temperature Range	-40 ~ +85℃				-25 ~ +85℃		
Capacitance Tolerance	+20% -20% (at 20℃, 120Hz)						
Leakage Current	I=3√CV uA max C: Capacitance, V:W.V. (After 5 minutes)						
Dissipation Factor(tan δ) (at 20℃, 120Hz)	Less than the value under table (%)						
	uF \ W.V.	10 ~ 16	25 ~ 35	50 ~ 63	80 ~ 100	160 ~ 250	350 ~ 450
	47 ~ 390	-	-	-	-	15	20
	470 ~3900	25	20	20	20	15	20
	4700~8200	35	30	30	25		
	10000~22000	40	35	30			
	27000~47000	45	40	35			
Stability at Low Temperature	Impedance ratio at 120Hz between the -25℃ or -40℃ value and 20℃ value shall not exceed :						
	Z-25℃/Z 20℃				3		
	Z-40℃/Z 20℃				12		
Load Life	The following specifications shall satisfied when the capacitors are restored to 20℃ after rated working voltage applied for 2,000 hours at max. operating temperature with the rated ripple current applied.						
	Capacitance change		≤±20% of the initial value.				
	Dissipation factor		≤±200% of the initial specified value				
	Leakage current		≤ The initial specified value.				
Shelf Life	After storage for 1000 hours at 85℃ with no voltage applied, the capacitor shall meet the specified limit in load life.						

Diagram of dimensions



Multiplier for R.C. vs Temperature

Temp.(°C)	45	60	70	85
Multiplier	1.55	1.3	1.2	1.00

Multiplier for Ripple Current VS Frequency

Cap.(uF) \ (Hz)	60	120	1K	10K	50K - 100K
10 < Cap. ≤ 100	0.8	1	1.36	1.48	1.53
100 < Cap. ≤ 1000	0.8	1	1.25	1.35	1.38
1000 < Cap.	0.8	1	1.17	1.25	1.28

Standard Products Table

W.V(DC)	CAP. (μF)	Ripple Current A max. 85°C, 120Hz	Dimensions A		Dimensions B		Dimensions C	
			D φ	L	D φ	L	D φ	L
16	4700	2.4	22	25	-		-	
	6800	2.84	22	25	-		-	
	10000	3.06	22	30	25	25	-	
	15000	3.94	22	35	25	30	-	
	22000	4.80	22	45	25	35	30	30
	33000	8.2	25	50	30	40	-	
	47000	8.96	30	50	35	40	-	
25	3300	2.46	22	25	-		-	
	4700	2.64	22	25	25	25	-	
	6800	2.93	22	30	25	25	-	
	10000	3.43	22	40	25	35	-	
	15000	4.39	22	50	25	40	30	35
	22000	5.40	25	50	30	40	-	
35	2200	2.18	22	25	-		-	
	3300	2.46	22	25	-		-	
	4700	2.68	22	30	25	25	-	
	6800	3.06	22	35	25	30	-	
	10000	3.60	25	45	30	35	-	
	15000	3.92	25	50	30	40	-	
	22000	5.45	30	50	35	40	-	
50	2200	2.04	22	25	-		-	
	3300	2.64	22	30	25	25	-	
	4700	2.88	22	40	25	35	30	30
	6800	3.24	22	50	25	40	-	
	10000	3.96	25	50	35	40	-	
63	1000	1.58	22	25	-		-	
	2200	2.52	22	25	25	25	-	
	3300	3.12	22	40	25	30	-	
	4700	3.28	25	45	30	35	-	
	6800	4.32	25	50	30	40	-	
	10000	4.77	35	50	-		-	
80	1000	1.62	22	25	-		-	
	2200	2.52	22	40	25	30	-	
	3300	3.24	22	50	25	40	30	30
	4700	3.60	25	50	30	40	-	
	6800	4.60	30	50	35	40	-	
	10000	5.04	35	62	-		-	
100	470	1.34	22	25	-		-	
	680	1.53	22	25	-		-	
	1000	1.62	22	30	25	25	-	
	1500	1.85	22	40	25	35	30	30
	2200	2.64	22	50	25	40	30	30
	3300	3.42	25	50	30	40	-	
	4700	3.72	30	50	35	40	-	
	6800	4.10	35	50	-		-	

Standard Products Table

W.V(DC)	CAP. (μF)	Ripple Current A max. 85°C, 120Hz	Dimensions A		Dimensions B		Dimensions C	
			D φ	L	D φ	L	D φ	L
160	220	1.20	22	25	-		-	
	330	1.44	22	25	-		-	
	470	1.76	22	30	25	25	-	
	680	2.36	22	40	25	30	-	
	1000	3.13	25	45	30	35	-	
	1500	3.96	25	45	35	35	-	
	2200	4.65	35	45	-		-	
200	150	0.96	22	25	-		-	
	220	1.36	22	25	-		-	
	330	1.89	22	30	25	25	-	
	470	2.23	22	35	25	30	-	
	680	2.98	22	45	25	40	30	30
	1000	3.26	25	50	30	40	-	
	1500	4.99	30	50	35	40	-	
250	2200	6.07	35	50	-		-	
	150	0.98	22	25	-		-	
	220	1.36	22	30	25	25	-	
	330	1.87	22	35	25	30	-	
	470	2.38	22	45	25	40	30	30
	680	3.11	25	50	30	40	-	
	1000	4.00	30	50	35	40	-	
350	1500	5.34	35	50	-		-	
	100	0.90	22	30	-		-	
	150	1.00	22	35	25	30	-	
	220	1.40	22	45	25	35	30	30
	330	1.90	25	50	30	40	-	
	470	2.41	30	45	35	35	-	
	680	3.20	35	50	-		-	
400	47	0.42	22	25	-		-	
	68	0.51	22	25	-		-	
	100	1.03	22	30	25	25	-	
	150	1.26	22	40	25	30	-	
	220	1.75	22	45	25	40	30	30
	330	2.26	30	40	35	35	25	50
	470	2.80	30	50	35	40	-	
450	680	3.69	40	50	-		-	
	47	0.36	22	25	-		-	
	68	0.50	22	30	22	25	-	
	100	1.03	22	35	25	30	-	
	150	1.39	22	45	25	35	30	30
	220	1.76	25	50	30	40	30	30
	330	2.29	30	45	35	40	-	
470	470	2.89	35	45	40	40	-	