

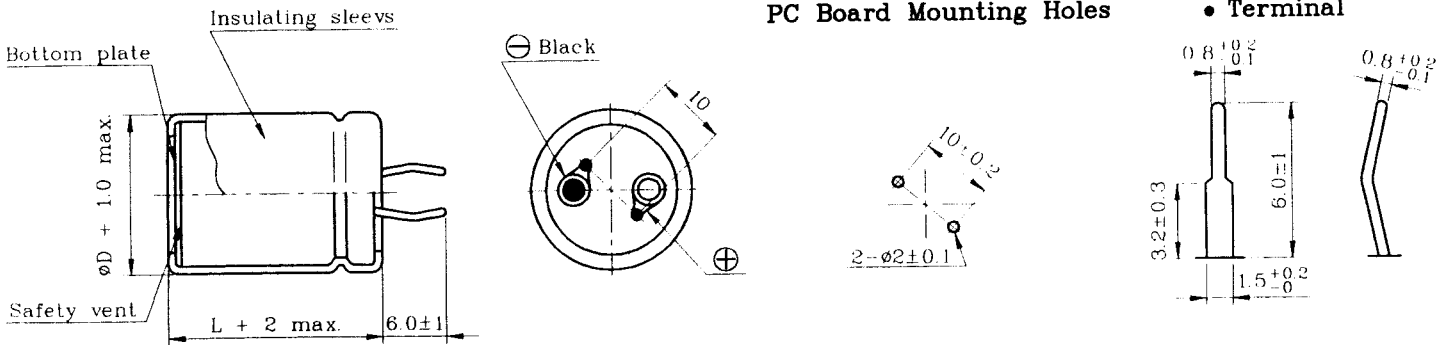
ELP SERIES

- 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	470~68000uF							47~2200uF						
Temperature Range	-40 ~ +85°C							-25 ~ +85°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	10V	16V	25V	35V	50V	63V	80V	100V	160V	250V	350V	400V	450V
	tan δ	0.50	0.50	0.40	0.35	0.30	0.25	0.20	0.20	0.15	0.15	0.20	0.20	0.20
	at 20°C, 120Hz													
Stability at Low Temperature	Impedance ration at 120Hz -25°C \ +20°C : 3 Max -40°C \ +20°C : 12 Max													
Load Life	The following specifications shall satisfied when the capacitors are restored to 20°C after rated working voltage applied for 2,000 hours at maximum operating temperature with the rated ripple current applied.													
	Capacitance change	≤ ±20% of the initial value.												
	Dissipation factor	≤ ±200% of the initial specified value												
Shelf Life	Leakage current ≤ The initial specified value.													
Shelf Life	After storage for 1000 hours at 85°C with no voltage applied, the capacitor shall meet the specified limit in load life.													

Diagram of dimensions



ELP SERIES

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
10	10000	3.06	22	30	25	25	-	
	15000	3.94	22	35	25	30	-	
	22000	4.80	22	45	25	35	30	30
	33000	8.20	25	50	30	40	-	
	47000	8.96	30	40	35	35	-	
	56000	10.50	35	45	-		-	
	68000	10.80	35	50	-		-	
16	4700	2.40	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	8.20	25	50	30	40	35	30
	47000	8.96	30	50	35	40	-	
25	68000	10.50	35	50	-		-	
	3300	1.55	22	25	-		-	
	4700	2.64	22	25	-		-	
	6800	2.93	22	30	25	25	-	
	10000	3.43	22	40	25	35	30	30
	15000	4.39	22	50	25	40	30	30
	22000	5.40	25	50	30	40	-	
35	33000	6.24	30	50	35	40	-	
	47000	7.60	35	50	-		-	
	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	-	
50	15000	3.92	25	50	30	40	-	
	22000	5.45	30	50	35	40	-	
	33000	6.36	35	50	-		-	
	2200	2.04	22	25	-		-	
	3300	2.64	22	30	25	25	-	
	4700	2.88	22	40	25	30	30	30
	6800	3.24	22	50	25	40	30	30
63	10000	3.96	25	50	35	40	-	
	15000	4.70	30	50	35	40	-	
	22000	5.85	35	50	-		-	
	1000	1.58	22	25	-		-	
	2200	2.52	22	30	25	25	-	
	3300	3.12	22	40	25	30	-	
80	4700	3.28	22	50	25	45	30	35
	6800	4.32	25	50	30	40	-	
	10000	4.77	35	40	-		-	
	1000	1.62	22	25	-		-	
	2200	2.52	22	40	25	30	-	
	3300	3.24	22	50	25	40	30	30
80	4700	3.60	25	50	30	40	-	
	6800	4.60	30	50	35	40	-	
	10000	5.04	35	60	-		-	
	10000	5.04	35	60	-		-	

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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
100	470	1.34	22	25	-		-	
	680	1.53	22	25	-		-	
	1000	1.62	22	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	-		-	
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	30	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	3.92	25	50	30	40	-	
	1500	4.99	30	50	35	40	-	
	2200	6.07	35	50	-		-	
250	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	100	0.76	22	30	-		-	
	150	0.99	22	35	25	30	-	
	220	1.40	22	45	25	35	30	30
	330	1.88	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	35	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	-	
	680	3.59	40	50	-		-	
450	47	0.36	22	25	-		-	
	68	0.80	22	30	-		-	
	100	1.03	22	35	25	30	-	
	150	1.39	22	50	25	35	30	30
	220	1.76	25	50	30	40	35	35
	330	2.29	30	45	35	40	-	
	470	2.89	35	45	-		-	