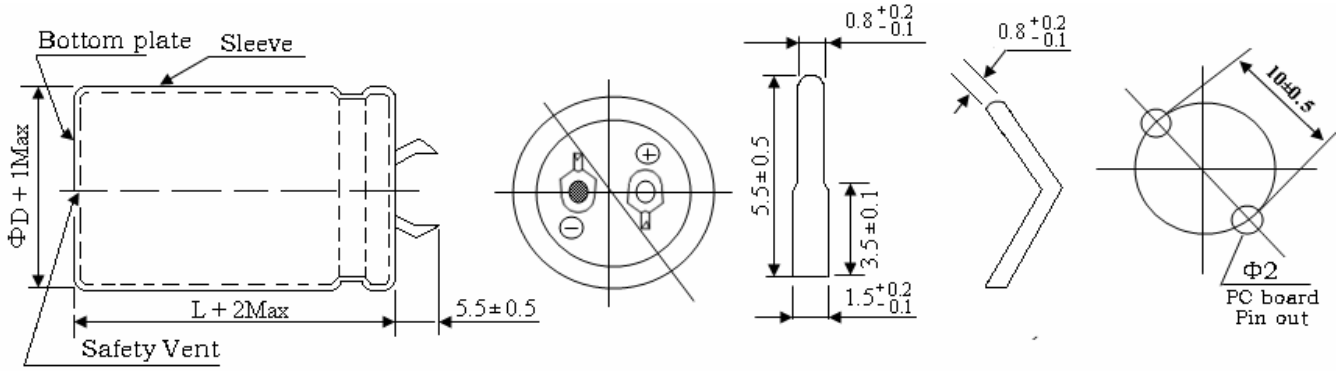
PK Series

Long life and high temperature, down size and high ripple current.
Load life 3,000 hours at 105℃.

SPECIFICATIONS

Item	Performance Characteristics
Category Temperature Range	-25 ~ +105℃
Working Voltage Range	200 ~ 450Vdc
Capacitance Range	56 ~ 2,200μF
Capacitance Tolerance	±20% (at 25℃ and 120Hz)
Dissipation Factor (tanδ) (at 25℃, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>tanδ(Max)</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.15</td></tr></table> The above values should be increased by 0.02 for every additional 1000μF
Leakage Current	I=0.02CV or 3000μA,whichever is smaller I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes.
Endurance	The following requirements shall be satisfied when the capacitor are restored to 25℃ after the rated voltage applied for 3,000 hours at 105℃. <table><tr><td>Capacitance change</td><td>≦ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≦ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≦ specified value</td></tr></table>
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25℃ after exposing them for 1,000 hours at 105℃ without voltage applied. <table><tr><td>Capacitance change</td><td>≦ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≦ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≦ 200% of the specified value</td></tr></table>
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.

DIMENSIONS (mm)



PK Series

Case size & Permissible rated ripple current (mA rms) 120Hz / 105℃:

Vdc / ΦD / uF	200								Vdc / ΦD / uF	220							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
270	22×25	1010							220	22×25	900						
330	22×31	1150							270	22×31	950						
390	22×35	1210	25×31	1200					330	22×31	1200	25×31	1150				
470	22×41	1330	25×35	1320					390	22×35	1300	25×31	1320				
560	22×45	1470	25×41	1460	30×31	1460			470	22×41	1520	25×35	1400	30×31	1350		
680	22×51	1610	25×45	1620	30×35	1630			560	22×45	1610	25×41	1510	30×31	1510		
820			25×51	1780	30×41	1830	35×31	1820	680			25×51	1710	30×35	1660	35×31	1620
1000					30×45	2100	35×35	2100	820			25×55	1860	30×41	1820	35×35	1760
1200					30×51	2410	35×41	2420	1000					30×51	2260	35×41	2230
1500							35×45	2810	1200					30×55	2630	35×45	2620
1800							35×51	3050	1500							35×51	2920

Vdc / ΦD / uF	250								Vdc / ΦD / uF	400							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
120									68	22×25	470						
150									82	22×25	580						
180									100	22×31	640	25×25	640				
220	22×31	910							120	22×35	690	25×31	680				
270	22×31	1050							150	22×41	810	25×31	810	30×25	750		
330	22×35	1170	25×31	1160					180	22×45	900	25×35	890	30×31	870		
390	22×41	1360	25×35	1330	30×25	1360			220	22×51	1010	25×41	1000	30×31	1000	35×25	1000
470	22×45	1460	25×41	1430	30×31	1510			270			25×51	1100	30×35	1110	35×31	1110
560	22×51	1570	25×45	1640	30×35	1640			330					30×41	1310	35×31	1310
680			25×51	1930	30×41	1820	35×31	1820	390					30×51	1410	35×35	1420
820					30×45	1990	35×35	2030	470							35×41	1730
1000					30×51	2190	35×41	2140	560							35×45	1930
1200							35×51	2760	680							35×55	2120

Vdc / ΦD / uF	420								Vdc / ΦD / uF	450							
	Φ 22		Φ 25		Φ30		Φ35			Φ 22		Φ 25		Φ30		Φ35	
	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC		ΦD×L	RC	ΦD×L	RC	ΦD×L	RC	ΦD×L	RC
68	22×25	460							56	22×25	410						
82	22×31	590	25×25	600					68	22×31	490						
100	22×31	630	25×25	620					82	22×31	590	25×25	590				
120	22×35	670	25×31	700	30×25	750			100	22×35	640	25×31	640	30×25	580		
150	22×41	790	25×35	800	30×25	770			120	22×41	690	25×31	690	30×25	670		
180	22×45	880	25×41	870	30×31	890	35×25	840	150	22×45	810	25×35	810	30×31	740	35×25	690
220			25×45	990	30×35	1050	35×31	980	180	22×51	870	25×41	870	30×31	840	35×25	790
270			25×51	1270	30×41	1100	35×31	1180	220			25×45	1010	30×35	940	35×31	970
330					30×45	1260	35×35	1330	270					30×41	1070	35×31	1170
390					30×51	1380	35×41	1500	330					30×45	1210	35×35	1330
470							35×45	1730	390							35×41	1520
560							35×51	1900	470							35×45	1700

RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Vdc	Frequency (Hz)				
	50/60	120	1K	10K	100K
200 ~ 250	0.80	1.00	1.15	1.17	1.20
350 ~ 450	0.70	1.00	1.10	1.12	1.15