



PK Series

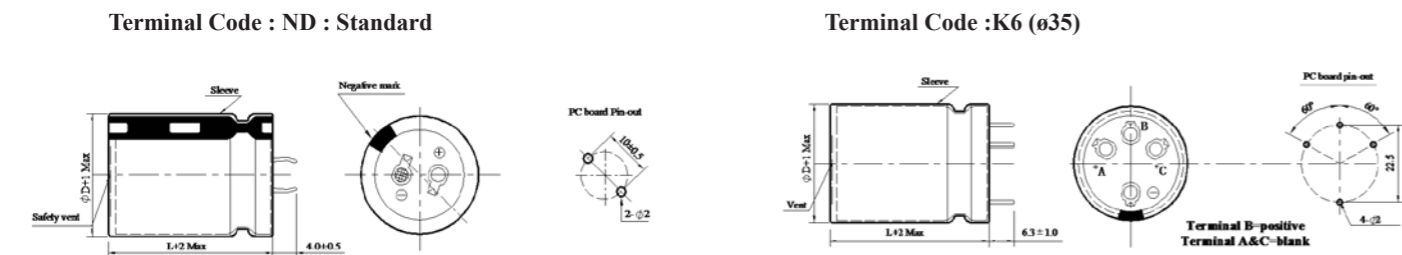
- Long life and high temperature, down size and high ripple current.
- Load life 3,000 hours at 105°C .



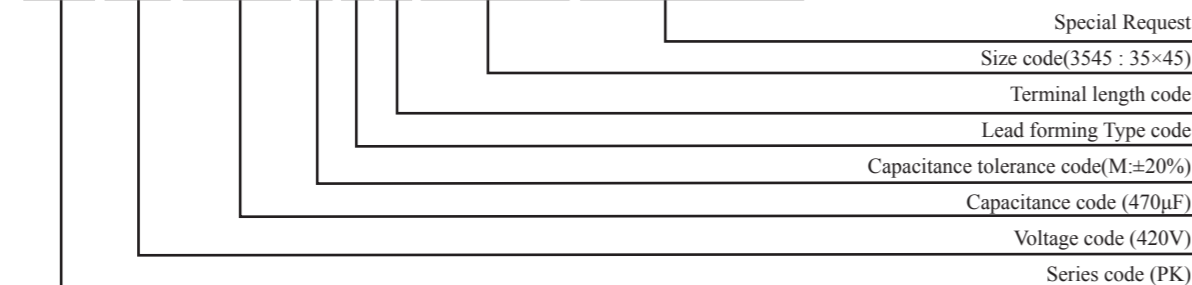
◆ SPECIFICATIONS

Item	Performance Characteristics																
Category Temperature Range	-25 ~ +105°C																
Working Voltage Range	200 ~ 450Vdc																
Capacitance Range	56 ~ 1,800μF																
Capacitance Tolerance	±20% (at 25°C and 120Hz)																
Dissipation Factor (tan δ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200</td> <td>220</td> <td>250</td> <td>350</td> <td>400</td> <td>420</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> <td>0.15</td> <td>0.15</td> </tr> </table>	Rated Voltage (V)	200	220	250	350	400	420	450	tanδ(Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15
	Rated Voltage (V)	200	220	250	350	400	420	450									
tanδ(Max)	0.15	0.15	0.15	0.15	0.15	0.15	0.15										
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°C after the rated voltage applied for 3,000 hours at 105°C.																
	<table border="1"> <tr> <td>Capacitance change</td> <td>≡ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tan δ)</td> <td>≡ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≡ specified value</td> </tr> </table>	Capacitance change	≡ ±20% of the initial value	Dissipation factor(tan δ)	≡ 200% of the specified value	Leakage current	≡ specified value										
Capacitance change	≡ ±20% of the initial value																
Dissipation factor(tan δ)	≡ 200% of the specified value																
Leakage current	≡ specified value																
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°C without voltage applied.																
	<table border="1"> <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>	Capacitance change	≡ ±20% of the initial value	Dissipation factor(tanδ)	≡ 200% of the specified value	Leakage current	≡ 200% of the specified value										
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Dissipation factor(tanδ)	≡ 200% of the specified value																
Leakage current	≡ 200% of the specified value																
Others	Conforms to JIS-C-5101-4 (1998), characteristic W.																

◆ DIMENSIONS (mm)



◆ PART NUMBERING SYSTEM (Example : 420V 470μF)



PK Series

- ◆ Case size & Permissible rated ripple current: (mA rms) at 120Hz / 105°C:

Vdc uF ΦD	200								Vdc uF ΦD	220							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
270	22x25	1010							220	22x25	900						
330	22x31	1150							270	22x31	950						
390	22x35	1210	25x31	1200					330	22x31	1200	25x31	1150				
470	22x41	1330	25x35	1320					390	22x35	1300	25x31	1320				
560	22x45	1470	25x41	1460	30x31	1460			470	22x41	1520	25x35	1400	30x31	1350		
680	22x51	1610	25x45	1620	30x35	1630			560	22x45	1610	25x41	1510	30x31	1510		
820			25x51	1780	30x41	1830	35x31	1820	680			25x51	1710	30x35	1660	35x31	1620
1000					30x45	2100	35x35	2100	820			25x55	1860	30x41	1820	35x35	1760
1200					30x51	2410	35x41	2420	1000					30x51	2260	35x41	2230
1500							35x45	2810	1200					30x55	2630	35x45	2620
1800							35x51	3050	1500							35x51	2920

Vdc uF ΦD	250								Vdc uF ΦD	400							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
120									68	22x25	470						
150									82	22x25	580						
180									100	22x31	640	25x25	640				
220	22x31	910							120	22x35	690	25x31	680				
270	22x31	1050							150	22x41	810	25x31	810	30x25	750		
330	22x35	1170	25x31	1160					180	22x45	900	25x35	890	30x31	870		
390	22x41	1360	25x35	1330	30x25	1360			220	22x51	1010	25x41	1000	30x31	1000	35x25	1000
470	22x45	1460	25x41	1430	30x31	1510			270			25x51	1100	30x35	1110	35x31	1110
560	22x51	1570	25x45	1640	30x35	1640			330					30x41	1310	35x31	1310
680			25x51	1930	30x41	1820	35x31	1820	390					30x51	1410	35x35	1420
820					30x45	1990	35x35	2030	470							35x41	1730
1000					30x51	2190	35x41	2140	560							35x45	1930
1200							35x51	2760	680							35x55	2120

Vdc uF ΦD	420								Vdc uF ΦD	450							
	Φ22		Φ25		Φ30		Φ35			Φ22		Φ25		Φ30		Φ35	
	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC		ΦD x L	RC	ΦD x L	RC	ΦD x L	RC	ΦD x L	RC
68	22x25	460							56	22x25	410						
82	22x31	590	25x25	600					68	22x31	490						
100	22x31	630	25x25	620					82	22x31	590	25x25	590				
120	22x35	670	25x31	700	30x25	750			100	22x35	640	25x31	640	30x25	580		
150	22x41	790	25x35	800	30x25	770			120	22x41	690	25x31	690	30x25	670		
180	22x45	880	25x41	870	30x31	890	35x25	840	150	22x45	810	25x35	810	30x31	740	35x25	690
220			25x45	990	30x35	1050	35x31	980	180	22x51	870	25x41	870	30x31	840	35x25	790
270			25x51	1270	30x41	1100	35x31	1180	220			25x45	1010	30x35	940	35x31	970
330					30x45	1260	35x35	1330	270					30x41	1070	35x31	1170
390					30x51	1380	35x41	1500	330					30x45	1210	35x35	1330
470							35x45	1730	390							35x41	1520
560							35x51	1900	470							35x45	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
400 ~ 450	0.70	1.00	1.10	1.12	1.15