

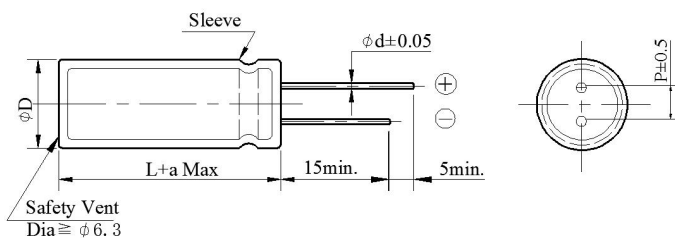
PK Series

- Downsize and high ripple current.
- Load life: 10,000 to 12,000 hours at 105°C.
- For electronic ballast circuits and other long life applications.

◆ SPECIFICATIONS

Item	Performance Characteristics				
Category Temperature Range	-40~ +105℃ (160~400V.DC) -25~ +105℃ (450V.DC)				
Working Voltage Range	160~450Vdc				
Capacitance Range	6.8 ~560 μF				
Capacitance Tolerance	±20% (at 20℃ and 120Hz)				
Dissipation Factor (tan δ) (at 20℃, 120Hz)	Rated Voltage (V)	160 ~ 250	350 ~ 450		
	tan δ (Max)	0.20	0.24		
	The above values should be increased by 0.02 for every additional 1000μF				
Leakage Current	I≤0.02CV+10μA I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Apply rated voltage the rated voltage for 2 minutes.				
Low Temperature Characteristics Impedance Ratio(MAX)	Rated Voltage (V)	160~250	400	450	(at 120Hz)
	Z(-25℃)/Z(+20℃)	4	5	6	
	Z(-40℃)/Z(+20℃)	6	6	-	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 12,000(10,000 hours for Φ 10) hours at 105℃.				
	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 20℃ after the rated voltage applied for 1,000 hours at 105℃ without voltage applied.				
	Capacitance change		≒ ±20% of the initial value		
	Dissipation factor(tan δ)		≒ 200% of the specified value		
	Leakage current		≒ 200% of the specified value		
others	Conforms to JIS-C-5101-4 (1998) and IEC 60384-4				

◆ DIMENSIONS (mm)



ΦD	10	12.5/13	16	18
ΦD	$\Phi D \pm 0.5$ Max			
Φd	0.6	0.6	0.8	0.8
F	5.0	5.0	7.5	7.5
a	$< 20 L \pm 1.5$ Max $\geq 20 L \pm 2.0$ Max			

◆ PART NUMBER SYSTEM(Example : 200V 33 μ F)

E	P	K	2	0	0	M	3	3	0	G	2	0	L	O	5	0	A	A
																		Special Request
																		Lead size
																		Lead type
																		Height code (L: 20mm)
																		Diameter code (G: $\Phi 10$)
																		Capacitance code (33 μF)
																		Capacitance tolerance code (M: $\pm 20\%$)
																		Voltage code (200V)
																		Series code (PK)
																		Category code

PK Series

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

WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105°C/120Hz (mA rms)	WV(V)	Nominal capacitance (uF)	Case Size ΦD×L (mm)	Max. Rated ripple current @105°C/120Hz (mA rms)
160	10	8×9	73	200	4.7	6.3×12	50
	22	8×12	120		10	8×12	80
		8×16	140		22	10×16	190
	33	8×20	190		33	10×20	270
		10×14	180		47	12.5×20	360
	47	10×16	230		68	13×25	520
	68	8×30	330		82	16×20	580
	100	10×25	500		100	13×25	640
	150	16×25	830		150	10×45	800
	220	16×30	1140		220	16×30	1040
	330	18×32	1400			18×25	1060
	470	18×40	1900		330	18×30	1360
250	10	8×12	110	350	470	18×40	1800
	22	10×16	210		560	18×50	1900
	33	10×20	260		6.8	10×16	105
	47	13×20	400		10	10×20	130
	56	13×20	430		15	10×20	160
	68	16×20	530		22	10×20	210
	82	16×25	640		33	13×20	330
	100	16×30	770		47	16×25	450
	150	18×30	980		68	16×30	580
	220	18×35	1250		82	18×25	630
	330	18×45	1550		100	18×30	800
400	4.7	8×12	80	450	120	18×30	820
	6.8	8×16	100		150	18×30	920
	10	10×16	130		1	6.3×12	20
	15	10×20	190		2.2	6.3×12	30
	22	10×20	220		3.3	6.3×15	40
	33	16×20	350		10	10×16	120
	47	16×25	480		15	10×18	150
	68	13×35	500		22	10×30	230
	82	18×30	680		33	13×25	350
	100	18×30	750		47	16×25	500
	120	18×32	840		68	14.5×35	590
	150	18×40	1040		82	18×30	680
					100	18×30	750
					120	18×35	880

◆ RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap(uF)	Frequency (Hz)			
	120	1K	10K	100K
<100	1.00	1.75	2.25	2.50
≥100	1.00	1.67	2.05	2.25