

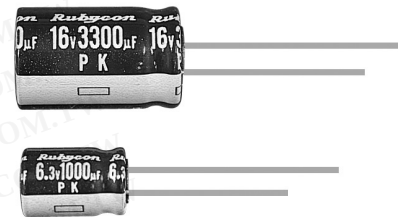
PK SERIES

85°C Standard

◆FEATURES

- Load life : 85°C 2000 hours.
- RoHS compliance.

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◆SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-40~+85℃							-25~+85℃								
Rated Voltage Range	6.3~400V.DC							450V.DC								
Capacitance Tolerance	±20%(20℃, 120Hz)															
Leakage Current(MAX)	6.3~100V.DC							160~450V.DC								
	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage)							CV≤1000				CV>1000				
								I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)				I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)				
								I=(μA) Leakage Current							C=(μF) Rated Capacitance	
(tanδ) Dissipation Factor(MAX)	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	(20℃, 120Hz)
	tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.20	0.20	0.20	0.25	0.25	0.25	
When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.																
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85℃, the capacitors shall meet the following requirements.															
	Capacitance Change			Within ±25% of the initial value.												
	Dissipation Factor			Not more than 200% of the specified value.												
	Leakage Current			Not more than the specified value.												
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	(120Hz)
	Z(-25℃)/Z(20℃)	5	4	3	2	2	2	2	2	3	3	4	5	5	7	
	Z(-40℃)/Z(20℃)	12	10	8	5	4	3	3	3	4	4	8	8	10	—	

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

(Hz) Frequency		60(50)	120	500	1k	10k≤
Coefficient	0.47~1μF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
	10~47μF	0.80	1.00	1.20	1.30	1.50
	100~1000μF	0.80	1.00	1.10	1.15	1.20
	2200~33000μF	0.80	1.00	1.05	1.10	1.15

◆OPTION

	Code
PET Sleeve	EFC

◆DIMENSIONS

(mm)

Technical drawing of a capacitor showing side and end views with dimensions.

Side View Dimensions:

- SLEEVE(PET):** Label for the sleeve material.
- ϕd :** Diameter of the terminal.
- $L + \alpha \text{ MAX}$:** Total length of the capacitor.
- 15MIN:** Minimum length of the main body.
- 4MIN:** Minimum length of the terminal.

End View Dimensions:

- $\phi D + 0.5 \text{ MAX}$:** Maximum outer diameter of the capacitor body.
- F:** Thickness of the capacitor body.
- H 0.5:** Dimension indicating the height of the terminal relative to the body.

ϕD	5	6.3	8	10	12.5	16	18		
ϕd	0.5		0.6			0.8			
F	2.0	2.5	3.5	5.0		7.5			
α	100V以下		WV $\leq$ 100:1.5			2.0			
	160V以上		WV $\geq$ 160:2.0						

◆PART NUMBER

□□□	PK	□□□□□	M	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆STANDARD SIZE

 Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./85°C, 120Hz)

Cap(μ F)	WV (V.DC)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47													5×11	7		
1													5×11	13		
2.2													5×11	23		
3.3													5×11	35		
4.7													5×11	41		
10													5×11	60	5×11	70
22											5×11	90	5×11	95	5×11	110
33									5×11	98	5×11	110	5×11	130	6.3×11	140
47							5×11	115	5×11	120	5×11	135	6.3×11	160	6.3×11	190
100	5×11	135	5×11	140	5×11	175	5×11	185	6.3×11	215	6.3×11	215	8×11.5	270	8×11.5	290
220	5×11	220	5×11	230	6.3×11	280	6.3×11	310	8×11.5	370	10×12.5	435	10×16	490	10×16	490
330	6.3×11	280	6.3×11	310	6.3×11	360	8×11.5	410	10×12.5	500	10×16	590	10×20	710	10×20	710
470	6.3×11	360	6.3×11	400	8×11.5	460	8×11.5	550	10×12.5	680	10×20	760	12.5×20	900	12.5×20	900
680	6.3×11	460	8×11.5	580	8×11.5	620	10×12.5	780	10×16	910	12.5×20	1000	12.5×25	1200	12.5×25	1200
1000	8×11.5	590	8×11.5	660	10×12.5	720	10×16	870	10×20	1180	12.5×25	1350	16×25	1350	16×25	1350
2200	10×16	920	10×16	1090	10×20	1320	12.5×20	1500	16×25	1810	16×31.5	1980	18×31.5	1800	18×31.5	1800
3300	10×20	1200	10×20	1440	12.5×20	1600	16×25	2000	16×25	1990	18×31.5	2100	18×40	2600	18×40	2600
4700	12.5×20	1550	12.5×20	1680	12.5×25	2050	16×25	2120	16×35.5	2500	18×40	2800				
6800	12.5×25	1920	12.5×25	2150	16×25	2250	16×31.5	2440	18×35.5	2740						
10000	16×25	2370	16×25	2270	16×31.5	2660	18×35.5	2900								
15000	16×31.5	2550	16×35.5	2880	18×35.5	2950										
22000	16×35.5	2900	18×35.5	3100												
33000	18×40	3400														

Cap(μ F)	WV (V.DC)		100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	5×11	8							6.3×11	8	6.3×11	8	6.3×11	8	6.3×11	8
1	5×11	16							6.3×11	16	6.3×11	16	6.3×11	16	6.3×11	16
2.2	5×11	35							6.3×11	30	6.3×11	30	8×11.5	31	8×11.5	29
3.3	5×11	45			6.3×11	40	6.3×11	45	8×11.5	45	8×11.5	48	8×11.5	48	8×11.5	33
4.7	5×11	50	6.3×11	45	6.3×11	51	6.3×11	54	8×11.5	55	10×12.5	56	10×12.5	56	10×12.5	46
10	5×11	75	8×11.5	83	8×11.5	85	10×12.5	90	10×16	90	10×16	90	10×16	90	10×20	84
22	6.3×11	135	10×12.5	130	10×16	150	10×16	150	12.5×20	185	12.5×20	200	12.5×25	200	12.5×25	140
33	8×11.5	185	10×16	180	10×20	205	10×20	205	12.5×25	240	12.5×25	240	16×25	240	16×25	180
47	8×11.5	220	10×20	230	10×20	220	12.5×20	260	16×25	300	16×25	250	16×31.5	220	16×31.5	220
100	10×16	380	12.5×25	430	12.5×25	320	16×25	450	18×31.5	520	18×35.5	420	18×40	280	18×40	280
220	12.5×20	610	16×31.5	645	16×31.5	540	18×35.5	680								
330	12.5×25	760	16×35.5	700	18×35.5	800										
470	16×25	1000	18×40	1200												
680	16×31.5	1100														
1000	18×31.5	1200														