

PK SERIES

85°C Standard

*Load Life : 85°C 2000 hours.



◆ SPECIFICATIONS

Items	Characteristics		
Category Temperature Range	-40~+85°C	-25~+85°C	
Rated Voltage Range	6.3~400Vdc	450Vdc	
Capacitance Tolerance	±20%(20°C, 120Hz)		
Leakage Current(MAX)	6.3~100Vdc	160~450Vdc	
	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)
Dissipation Factor(MAX) (tanδ)	I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc)		
	Rated Voltage (Vdc)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 (20°C, 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	
Endurance	After applying rated voltage with rated ripple current for 2000 hours at 85°C, 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.	
Low Temperature Stability Impedance Ratio(MAX)	When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF.		
	Rated Voltage (Vdc)	6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 (120Hz)	
	Z(-25°C)/Z(20°C)	5 4 3 2 2 2 2 2 3 3 4 5 5 7	
	Z(-40°C)/Z(20°C)	12 10 8 5 4 3 3 3 4 4 8 8 10 -	

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	60(50)	120	500	1k	10k≤
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

◆ DIMENSIONS

(mm)

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	Vdc≤100 : α=1.5 Vdc≥160 : α=2.0					2.0	

◆ OPTION

	Code
PET Sleeve	EFC

◆ PART NUMBER

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

◆STANDARD SIZE

 Size ϕ D×L(mm), Rated Ripple Current (mA r.m.s./85°C, 120Hz)

Cap(μF)	6.3		10		16		25		35		50		63	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1											5×11	10		
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	134	5×11	140	5×11	175	5×11	185	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
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
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
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
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
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
3300	10×20	1200	10×20	1440	12.5×20	1600	16×25	2000	16×25	1990	18×31.5	2100	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(μF)	100		160		200		250		350		400		450	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47							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	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	46
10	5×11	75	8×11.5	83	8×11.5	85	10×12.5	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	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	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
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
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												