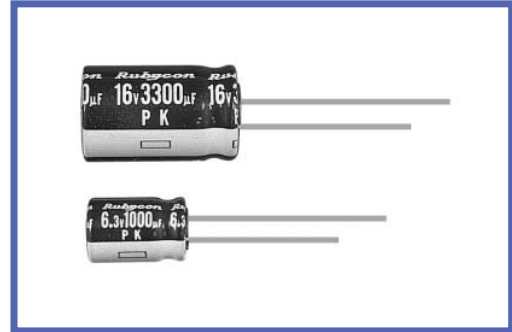


PK SERIES

85°C Miniaturized

◆FEATURES

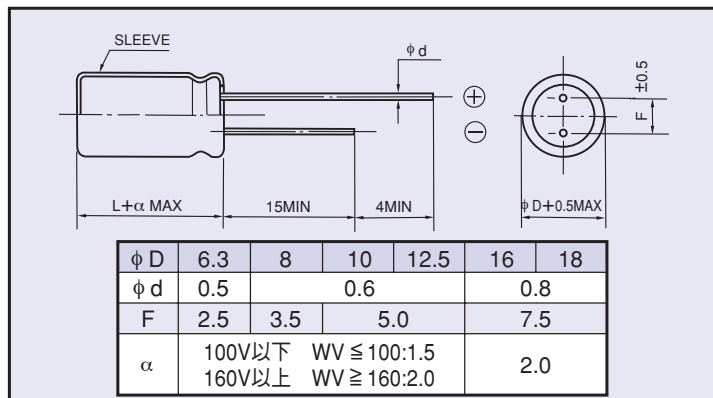
- Load life : 85°C 2000 hours.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics														
Category Temperature Range	-40~+85°C	-25~+85°C													
Rated Voltage Range	6.3~400V.DC	450V.DC													
Capacitance Tolerance	±20% (20°C, 120Hz)														
Leakage Current(MAX)	6.3~100V.DC	160~450V.DC													
	I=0.01CV or 3 µA whichever is greater. (After 2 minutes application of rated voltage)	CV ≤ 1000	CV > 1000												
		I=0.1CV+40 µA (1minute)	I=0.04CV+100 µA (1minute)												
	I=0.03CV+15 µA (5minutes)	I=0.02CV+25 µA (5minutes)													
	I=Leakage Current(µA)	C=Rated Capacitance(µF) V=Rated Voltage(V)													
(tanδ) Dissipation Factor(MAX)	Rated Voltage(V) 6.3 10 16 25 35 50 63 100 160 200 250 350 400 450 (20°C, 120Hz)														
	tan δ 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 1000 µF, tanδ shall be added 0.02 to the listed value with increase of every 1000 µF.														
Endurance	After applying rated voltage with rated ripple current for 2000hrs 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.													
	Leakage Current	Not more than the specified value.													
Low Temperature Stability Impedance Ratio(MAX)	Rated Voltage(V) 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	—

◆DIMENSIONS



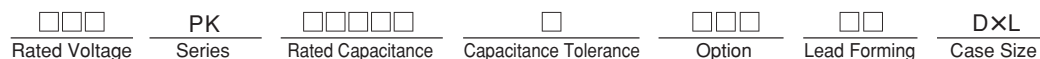
(mm)

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

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

◆PART NUMBER



◆ STANDARD SIZE

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

WV (V.DC) Cap(μ F)	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
100											8 \times 11.5	270	8 \times 11.5	290
220									8 \times 11.5	370	10 \times 12.5	435	10 \times 16	490
330					6.3 \times 11	360	8 \times 11.5	410	10 \times 12.5	500	10 \times 16	590	10 \times 20	710
470					8 \times 11.5	460	8 \times 11.5	550	10 \times 12.5	680	10 \times 20	760	12.5 \times 20	900
680	6.3 \times 11	460	8 \times 11.5	580	8 \times 11.5	620	10 \times 12.5	780	10 \times 16	910	12.5 \times 20	1000	12.5 \times 25	1200
1000	8 \times 11.5	590	8 \times 11.5	660	10 \times 12.5	720	10 \times 16	870	10 \times 20	1180	12.5 \times 25	1350	16 \times 25	1350
2200	10 \times 16	920	10 \times 16	1090	10 \times 20	1320	12.5 \times 20	1500	16 \times 25	1810	16 \times 31.5	1980	18 \times 31.5	1800
3300	10 \times 20	1200	10 \times 20	1440	12.5 \times 20	1600	16 \times 25	2000	16 \times 25	1990	18 \times 31.5	2100	18 \times 40	2600
4700	12.5 \times 20	1550	12.5 \times 20	1680	12.5 \times 25	2050	16 \times 25	2120	16 \times 35.5	2500	18 \times 40	2800		
6800	12.5 \times 25	1920	12.5 \times 25	2150	16 \times 25	2250	16 \times 31.5	2440	18 \times 35.5	2740				
10000	16 \times 25	2370	16 \times 25	2270	16 \times 31.5	2660	18 \times 35.5	2900						
15000	16 \times 31.5	2550	16 \times 35.5	2880	18 \times 35.5	2950								
22000	16 \times 35.5	2900	18 \times 35.5	3100										
33000	18 \times 40	3400												

WV (V.DC) Cap(μ F)	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
0.47													6.3 \times 11	8
1													6.3 \times 11	16
2.2									6.3 \times 11	30	8 \times 11.5	31	8 \times 11.5	29
3.3							6.3 \times 11	45	8 \times 11.5	45	8 \times 11.5	48	8 \times 11.5	33
4.7					6.3 \times 11	51	6.3 \times 11	54	8 \times 11.5	55	10 \times 12.5	56	10 \times 12.5	46
10			8 \times 11.5	80	8 \times 11.5	85	10 \times 12.5	90	10 \times 16	90	10 \times 16	90	10 \times 20	84
22			10 \times 12.5	130	10 \times 16	150	10 \times 16	150	12.5 \times 20	185	12.5 \times 20	200	12.5 \times 25	140
33	8 \times 11.5	185	10 \times 16	180	10 \times 20	205	10 \times 20	205	12.5 \times 25	240	12.5 \times 25	240	16 \times 25	180
47	8 \times 11.5	220	10 \times 20	230	10 \times 20	220	12.5 \times 20	260	16 \times 25	300	16 \times 25	250	16 \times 31.5	220
100	10 \times 16	380	12.5 \times 25	430	12.5 \times 25	320	16 \times 25	450	18 \times 31.5	520	18 \times 35.5	420	18 \times 40	280
220	12.5 \times 20	610	16 \times 31.5	645	16 \times 31.5	540	18 \times 35.5	680						
330	12.5 \times 25	760	16 \times 35.5	700	18 \times 35.5	800								
470	16 \times 25	1000	18 \times 40	1200										
680	16 \times 31.5	1100												
1000	18 \times 31.5	1200												

Refer to YK series for low capacitance models.