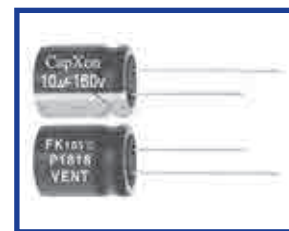


FK Series Long Life for 105°C



Features

- ◆ Specially designed for electronic ballast, energy-save lamp and LED driving power
- ◆ Endurance 6000~8000 hrs at 105°C
- ◆ Safety vent construction design.
- ◆ RoHS Compliant

Specifications

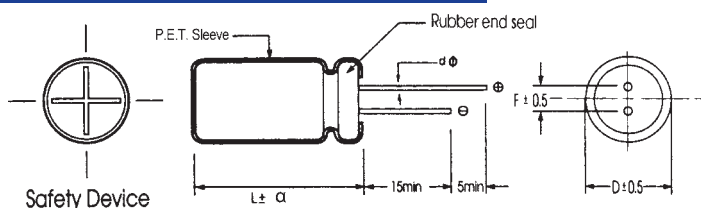
Item	Performance Characteristics									
Operating Temperature Range	-40 to +105°C (160~450Vdc)	-25 to +105°C (500Vdc)								
Rated Voltage Range	160 to 500 VDC									
Capacitance Range	1 to 330 µF									
Capacitance Tolerance	±20%(120Hz,+20°C)									
Leakage Current (+20°C,max.)	(CV ≤ 1000)	(CV > 1000)								
	1 ≤ 0.1CV+40(µA)	1 ≤ 0.04CV+100(µA)								
After 1minute with rated working voltage applied. C: rated Capacitance (µF) , V: working voltage(V)										
Dissipation Factor (tan δ , at 20°C , 120Hz)	Working Voltage(VDC)	160 200 250 350 400 420 450 500								
	D.F.(%)max.	15 15 15 20 20 20 20 24								
Low Temperature Characteristics (at 120Hz)	Impedance ratio max									
	Working Voltage(VDC)	160	200	250	350	400	420	450	500	
	Z-25°C / Z+20°C	3	3	3	5	5	6	6	6	
	Z-40°C / Z+20°C	6	6	6	6	6	-	-	-	
Endurance	Test condition								D φ	Life (hours)
	Duration time	:As right							6.3 φ , 8 φ , 10 φ x9L	6000
	Ambient temperature	:+105°C							10 φ x12.5L or more	8000
	Applied voltage	:Rated DC working voltage								
	After test requirement at +20°C									
	Capacitance change	: with ±20% of the initial measured value								
	Dissipation factor	: ≤ 200% of the initial specified value								
	Leakage current	: ≤ The initial specified value								
Shelf Life	Test condition									
	Duration time	:1000Hrs								
	Ambient temperature	:+105°C								
	Applied voltage	:None								
	After test requirement at +20°C	:Same limits as Endurance.								
	Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.									

Radial

Multiplier for Ripple Current vs. Frequency

Frequency(Hz) \ CAP(µF)	120	1K	10K	100KHz
1~82	1.00	1.75	2.25	2.50
≥ 100	1.00	1.67	2.05	2.25

Diagram of Dimensions:(unit:mm)



φD	8	10	13	16	18	22
F	3.5	5.0	5.0	7.5	7.5	10
φd	L < 20	L ≥ 20		0.6		0.8
	0.5	0.6				

α	D < 16	D = 16		D = 18		D > 18
	L: 25~35.5	L < 25 and L ≥ 40	L: 25~31.5	L < 25 and L ≥ 35.5		
	1.5	1.5	2.0	1.5	2.0	2.0

Case Size

VV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)	Rated Ripple current (mArms/105°C /100KHz)
160	1	6.3x11	20	51
160	1	6.3x9	18	46
160	1.5	6.3x11	22	56
160	1.5	6.3x9	20	51
160	2.2	6.3x11	28	71
160	2.2	6.3x9	26	65
160	3.3	6.3x11	32	81
160	3.3	6.3x9	29	73
160	4.7	6.3x11	36	91
160	4.7	6.3x9	34	86
160	5.6	6.3x11	38	96
160	5.6	6.3x9	36	91
160	5.6	8x11.5	44	110
160	6.8	6.3x11	44	110
160	6.8	8x11.5	52	130
160	6.8	8x9	44	110
160	8.2	8x11.5	60	150
160	8.2	8x9	56	140
160	10	8x11.5	96	240
160	10	8x16	110	280
160	10	8x9	88	220
160	10	10x12.5	120	290
160	15	8x16	110	280
160	15	10x9	100	260
160	22	8x20	180	450
160	22	10x12.5	160	410
160	22	10x16	180	460
160	33	10x16	230	570
160	33	10x20	250	630
160	47	10x16	300	740
160	47	10x20	300	760
160	68	13x20	470	1180
160	82	13x20	520	1290
160	100	13x25	620	1400
160	100	16x20	630	1420
160	150	16x25	840	1880
160	220	18x25	1090	2460
160	270	16x31.5	1260	2830
160	330	18x31.5	1400	3140
200	1	6.3x11	23	57
200	1	6.3x9	21	53
200	1.5	6.3x11	24	61
200	1.5	6.3x9	23	57
200	2.2	6.3x11	30	75
200	2.2	6.3x9	28	69
200	3.3	6.3x11	39	97
200	3.3	6.3x9	35	87
200	4.7	6.3x11	52	130
200	4.7	8x9	52	130
200	5.6	6.3x11	56	140
200	5.6	8x11.5	64	160
200	5.6	8x9	56	140
200	6.8	8x11.5	76	190
200	6.8	8x9	64	160
200	8.2	8x11.5	84	210
200	10	8x11.5	110	270
200	10	8x16	120	310
200	10	10x12.5	130	320

VV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)	Rated Ripple current (mArms/105°C /100KHz)
200	10	10x9	110	270
200	22	8x20	220	550
200	22	10x16	220	560
200	22	10x20	250	620
200	33	10x16	260	650
200	33	10x20	280	710
200	47	13x16	360	890
200	47	13x20	390	980
200	68	13x20	470	1180
200	68	13x25	520	1300
200	100	13x25	630	1420
200	100	16x25	680	1530
200	150	18x25	900	2020
200	220	16x31.5	1090	2460
250	1	6.3x11	24	59
250	1	6.3x9	21	53
250	1.5	6.3x11	24	61
250	1.5	6.3x9	23	57
250	2.2	6.3x11	30	76
250	2.2	6.3x9	28	69
250	2.2	8x11.5	38	95
250	3.3	6.3x11	40	100
250	3.3	6.3x9	35	87
250	3.3	8x11.5	56	140
250	4.7	8x11.5	64	160
250	4.7	8x16	72	180
250	4.7	8x9	52	130
250	4.7	10x12.5	76	190
250	5.6	8x11.5	72	180
250	5.6	8x9	64	160
250	6.8	8x11.5	80	200
250	6.8	8x16	92	230
250	6.8	10x12.5	100	250
250	8.2	8x16	88	220
250	8.2	10x9	80	200
250	10	8x16	120	290
250	10	10x12.5	120	300
250	15	10x16	130	330
250	22	10x16	180	460
250	22	10x20	200	510
250	33	10x20	270	680
250	33	13x16	270	680
250	33	13x20	320	800
250	47	13x20	400	990
250	47	13x25	430	1080
250	56	13x25	500	1260
250	68	16x25	560	1400
250	100	16x25	680	1540
250	150	16x31.5	900	2020
250	220	18x31.5	1130	2550
350	1	6.3x11	26	66
350	1	6.3x9	21	53
350	1	8x11.5	31	77
350	1.5	6.3x11	30	75
350	1.5	6.3x9	26	66
350	2.2	6.3x11	38	95
350	2.2	8x11.5	48	120
350	2.2	8x9	35	88

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)	Rated Ripple current (mArms/105°C /100KHz)
350	3.3	8x11.5	56	140
350	3.3	8x9	48	120
350	3.3	10x12.5	64	160
350	4.7	8x16	72	180
350	4.7	10x12.5	76	190
350	4.7	10x9	64	160
350	5.6	8x16	84	210
350	5.6	10x12.5	88	220
350	6.8	8x20	110	270
350	6.8	10x16	110	280
350	8.2	8x20	130	320
350	10	8x20	130	320
350	10	10x16	130	330
350	15	10x20	150	370
350	22	13x20	260	650
350	33	13x25	380	940
350	47	16x20	430	1080
350	47	16x25	460	1160
350	68	18x20	560	1400
350	68	18x25	600	1510
350	82	18x25	610	1530
350	100	16x31.5	720	1630
350	150	18x35.5	960	2170
400	1	6.3x11	30	76
400	1	6.3x9	25	63
400	1.5	6.3x9	30	76
400	1.5	8x11.5	36	91
400	2.2	6.3x11	44	110
400	2.2	8x11.5	48	120
400	2.2	8x9	40	100
400	3.3	8x11.5	60	150
400	3.3	8x9	52	130
400	4.7	8x11.5	80	200
400	4.7	8x16	88	220
400	4.7	10x12.5	92	230
400	4.7	10x9	72	180
400	5.6	8x16	88	220
400	5.6	10x12.5	100	250
400	6.8	8x16	110	270
400	6.8	10x12.5	110	280
400	8.2	8x16	110	280
400	8.2	10x12.5	120	290
400	8.2	10x16	130	320
400	10	8x20	140	350
400	10	10x16	140	360
400	10	10x20	160	400
400	15	10x20	190	480
400	15	13x16	200	500
400	22	13x20	260	650
400	33	13x25	360	900
400	33	16x20	360	900

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)	Rated Ripple current (mArms/105°C /100KHz)
400	47	16x25	470	1180
400	56	18x25	560	1400
400	68	18x25	590	1480
400	82	16x31.5	630	1580
400	100	18x31.5	770	1730
400	120	18x31.5	830	1860
400	150	18x35.5	930	2090
450	1	6.3x11	30	76
450	1	6.3x9	25	63
450	1.5	8x11.5	36	91
450	2.2	8x11.5	48	120
450	2.2	8x16	56	140
450	2.2	8x9	40	100
450	2.2	10x12.5	60	150
450	3.3	8x11.5	64	160
450	3.3	10x12.5	80	200
450	3.3	10x9	68	170
450	4.7	8x16	100	250
450	4.7	10x12.5	100	250
450	4.7	10x16	110	270
450	5.6	10x16	110	280
450	6.8	8x20	120	300
450	6.8	10x16	130	320
450	6.8	10x20	140	340
450	8.2	10x20	140	360
450	10	10x20	160	390
450	15	13x20	220	550
450	22	13x25	290	730
450	22	16x20	290	730
450	33	13x25	360	900
450	33	16x25	390	980
450	47	16x25	470	1180
450	47	18x25	500	1260
450	68	16x31.5	630	1580
450	68	18x25	590	1480
450	82	18x31.5	680	1700
450	100	18x35.5	800	1790
500	4.7	10x20	88	220
500	5.6	10x20	92	230
500	6.8	10x20	130	320
500	8.2	10x20	130	320
500	10	13x20	140	360
500	15	13x25	180	450
500	22	16x25	230	580
500	33	18x25	390	980
500	47	16x31.5	500	1260
500	56	18x31.5	570	1420
500	68	18x35.5	630	1580
500	82	18x40	680	1700
500	100	18x45	800	1800
500	120	22x45	840	1900