

FK Series 系列

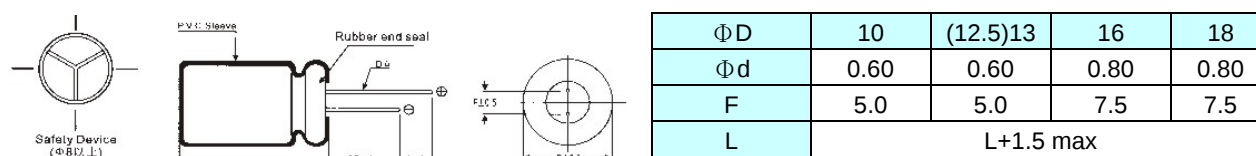
特点 Features

- 适用于节能型荧光灯、高档 LED 电源供应器等。Used in Conserves energy the lamp, switching power supply, etc.
- 105℃ 负荷寿命可达 8000-12000 小时, Load life 8000~12000 hrs at 105℃.
- 符合环保要求 RoHS Compliant

特性表 Specifications

项 目 Item	特性参数 Performance Characteristics																	
使用温度范围 Operating Temp. Range	-25~+105℃																	
额定工作电压 Rated Voltage Range	200to 450 VDC																	
静电容量范围 Capacitance Range	1.0 to 100 μF																	
静电容量误差 Capacitance Tolerance	±20% (120Hz, 20℃)																	
漏电流 Leakage Current	LC≤0.01CV + 40 (μA), 施加额定电压 2 分钟后取最大值 After 2 minutes whichever is greater measured with rated working voltage applied																	
损耗角正切值(Tanσ) Disspation Factor(Tanσ) (max, 120Hz, 20℃)	测量频率 Measurement frequency: 120Hz, Temperature : 20℃ <table><tr><td>W.V(VDC)</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>D.F(%)</td><td>0.12</td><td>0.12</td><td>0.15</td><td>0.15</td><td>0.15</td></tr></table>						W.V(VDC)	200	250	350	400	450	D.F(%)	0.12	0.12	0.15	0.15	0.15
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低温特性 Low Temp. Characteristic (最大阻抗比 Max Impedance Ratio) (120Hz)	测量频率 Measurement frequency: 120Hz, <table><tr><td>W.V(VDC)</td><td>200</td><td>250</td><td>350</td><td>400</td><td>450</td></tr><tr><td>Z(-25)/Z(+20℃)</td><td>3</td><td>3</td><td>5</td><td>5</td><td>5</td></tr></table>						W.V(VDC)	200	250	350	400	450	Z(-25)/Z(+20℃)	3	3	5	5	5
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高温负荷 Load Life	试验条件 Test conditions 试验时间 Duration time: φ 5~φ 8:8000hrs φ 10~φ 18:12000hrs 工作温度 Ambient temperature: +105℃ 工作电压 Applied voltage: Rated DC working voltage 测试条件 After test requirements at +20℃ 静电容量变化率 Capacitance change: Within±20% of the initial measured 损耗角正切 Dissipation factor: ≤200% of the initial specified value 漏电流 Leakage current: ≤ the initial specified value																	
高温储存 Shelf Life	试验条件 Test conditions 放置时间 Duration time: 1000hrs 放置温度 Ambient temperature: +105℃ 工作电压 Applied voltage: None 放置完成后在+25℃条件下进行特性测试,并在测量前使用额定直流工作电压充电 30 分钟 After test requirements at +20℃ : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30minutes																	
其它 Others	JIS C-5141 and JIS C-5102																	

产品尺寸图 Diagram of Dimensions (unit: mm)



频率修正系数 Multiplier for ripple current vs frequency

Cap(μF) \ Fre.(Hz)	120	1K	10K	100K
1~22	0.32	0.64	0.90	1.00
33~220	0.38	0.69	0.94	1.00

ALUMINUM ELECTROLYTIC CAPACITORS

温度修正系数 Multiplier for ripple current vs temperature

Temperature (℃)	40	60	70	85	105
Multiplier	2.1	1.90	1.40	1.25	1.00

尺寸表 Case Size

WV(V) Cap(μF)	200 (250)		250 (300)		350 (400)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1	6.X12	55	6.3x12	55	6.3x12	58	6.3x12	65	8x12	68
1.5	6.3X12	63	6.3x12	65	6.3x12	69	6.3x12	80	8x12	82
2.2	6.3X12	75	6.3x12	80	6.3x12	83	8x12	87	8x17	92
3.3	8X12	95	8x12	120	8x12	110	8x12	120	8x17	125
4.7	6.3X12	108	8x12	135	8x12	140	8x12	150	8x17	160
5.6	8X12	140	8x12	150	8x17	155	10x13	165	10x17	175
6.8	8X12	155	8x12	160	10x17	190	10x13	200	10x17	230
10	8X12	220	8x12	245	10x20	270	10x17	290	10x20	305
15	10X13	350	10x17	385	10x20	390	10x20	400	13x20	410
22	10X20	530	10x17	475	13x20	490	13x20	535	13x20	640
33	12X20	600	10x20	620	16x25	625	13x25	640	16x25	700
47	13X25	660	13x20	675			16x25	1000	18x30	800
68	16X25	860	16x25	875			18x25	1200	18x30	1500
100	16X25	1050	18x30	1210			18x32	1700	18x35	2150
120	16x25	1350					18x36	1900		
150	16x25	1560								
180	18x25	1760								
220	18x25	2000								

Ripple Current (mA,rms,at 105℃, 100KHz)

case size Φ DXL (mm)