

FS Series 系列

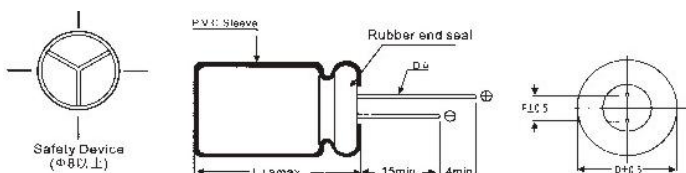
特点 Features

- 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 5000 小时 Load life 5000 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	-40~+105℃					
额定工作电压 Rated Voltage Range	200 to 450 VDC					
静电容量范围 Capacitance Range	1.0 to 220 μF					
静电容量误差 Capacitance Tolerance	±20% (120Hz, 20℃)					
漏电流 Leakage Current	LC≦0.01CV + 40 (μA), at CV≦1000, 施加额定电压 1 分钟后取最大值 After 1 minutes whichever is greater measured with rated working voltage applied					
	LC≦0.01CV + 100 (μA), at CV>1000, 施加额定电压 1 分钟后取最大值 After 1 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℃					
	W.V(VDC)	200	250	350	400	450
	D.F(%)	0.12	0.12	0.15	0.15	0.15
低温特性 Low Temp. Characteristic (最大阻抗比 Max Impedance Ratio) (120Hz)	测量频率 Measurement frequency: 120Hz,					
	W.V(VDC)	200	250	350	400	450
	Z(-25)/Z(+20℃)	3	3	5	5	6
	Z(-40)/Z(+20℃)	6	6	6	6	--
高温负荷 Load Life	试验条件 Test conditions					
	试验时间 Duration time: 5000hrs 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+20℃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)



ΦD	8	10	(12.5)13	16	18
Φd	0.50	0.60	0.60	0.80	0.80
F	3.5	5.0	5.0	7.5	7.5
L	L+1.5 max				

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

温度修正系数 Multiplier for ripple current vs temperature

Temperature (°C)	45	60	70	85	95	105
Multiplier	2.35	2.10	1.90	1.70	1.40	1.0

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	6.3x12	42	6.3x12	45	6.3x12	50	8x12	68	6.3x12	50
1.5	6.3x12	54	6.3x12	57	8x12	72	8x12	90	8x12	75
2.2	6.3x12	68	6.3x12	85	8x12	75	8x12	95	8x12	80
3.3	6.3x12	78	8x12	78	8x12	90	8x12	90	8x12	92
4.7	8x12	100	8x12	83	8x12	102	8x12	205	10x13	130
5.6	8x12	125	8x12	102	8x16	128	8x12	235	10x13	138
6.8	8x12	130	8x12	105	10x13	258	10x13	280	10x13	152
10	10x13	300	10x13	310	10x16	330	10x16	330	10x16	240
	10x16	330	10x16	350	10x20	360	10x20	360	10x20	260
15	10x16	405	10x20	435	10x20	435	10x20	435	13x21	420
22	10x16	480	10x20	530	10x25	525	13x21	590	13x21	620
	10x20	530	13x2	600	13x21	590	13x25	640	13x25	640
33	10x20	545	10x20	560	13x25	650	13x25	680	13x25	660
	13x21	600	13x21	620	16x20	650	16x20	680	16x25	690
47	10x25	680	13x21	730	16x25	835	16x25	835	18x25	800
	13x21	730	13x25	780	18x20	835	18x20	835	18x30	900
56	13x21	780	13x25	830	18x20	985	16x25	1000	18x30	1000
	13x25	830	16x20	925	18x25	1050	18x25	1100	18x32	1100
68	13x25	925	13x25	900	18x25	1100	18x25	1150	18x32	1300
	16x20	925	16x20	950	18x30	1560	18x30	1200	18x35	
82	16x20	1000	16x25	1100	18x30	1600	18x30	1650	18x35	1800
100	13*25	1120	16x25	1150	18x30	1700	18x32	1800	18x35	2000
	16x20	1200	18x25	1210						
120	16x25	1200	18x25	1380						
150	16x25	1470	18x25	1450						
180	18*25	1570	18x30	1560						
220	18*25	1900								

Ripple Current (mA,rms,at 105°C, 100KHz)

case size ΦDXL (mm)