

TP Series

High Ripple Current (高纹波) , Long Life Assurance(长寿命)

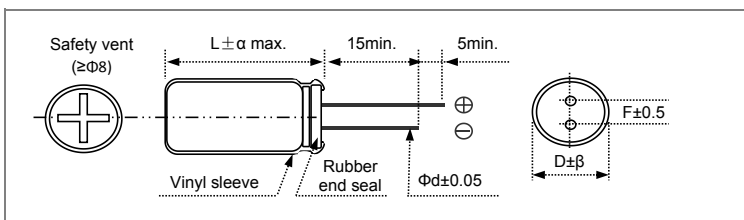
FEATURES 特点

1. High ripple current.
2. For electronic ballast, power supply, light emitting diode lamp(LED) drive source etc.

SPECIFICATIONS 规格表

Item 项目	Performance Characteristics 特性参数							
Operation Temperature Range 工作温度范围	-40°C~+105°C				-25~ +105°C			
Rated Working Voltage Range 额定电压范围	160 to 400 VDC				450 VDC			
Nominal Capacitance Range 静电容量范围	1 to 220µF							
Capacitance Tolerance 静电容量允许偏差	±20% (120Hz 20°C)							
Leakage Current 漏电流	LC≤0.02CV +25 (µA) Whichever is greater measured after 2 minutes application of rated working voltage at +20 °C 施加额定工作电压充电2分钟后读数。 [C : 静电容量(µF) , V : 额定电压(V)]							
Dissipation Factor (tan δ) 损失角正切值 (120Hz, +20°C)	Working Voltage(v)	160	200	250	350	400	450	500
	tan δ(max.)	0.15	0.15	0.15	0.20	0.20	0.20	0.20
Surge Voltage 浪涌(突波)电压	Working Voltage(v)	160	200	250	350	400	450	500
	Surge Voltage(v)	200	250	300	400	450	500	550
Low Temperature characteristics 温度特性(阻抗比)	Impedance ratio max. at 120 Hz 阻抗比最大值							
	Working Voltage(V)	160	200	250	350	400	450	500
	Z(-25°C)/ Z(+20°C)	3	3	3	5	5	6	12
High Temperature Loading (Endurance) 高温负荷寿命(耐久性)	Test conditions 试验条件				Post test requirements at +20°C 试验后特性应满足如下要求			
	Duration 持续时间	3,000~5000 hours			Leakage current 漏电流	≤Initial specified value 初始规格值		
	Ambient temp. 环境温度	+105°C			Cap. Change 静电容量变化率	within ±20% of initial measured value 初始测试值的±20%内		
	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +105°C 施加直流电压与额定纹波电流(所加电压峰值 [DC+AC]不超过额定工作电压)			D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值		
				Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时				
Shelf Life 高温储存寿命	Test conditions 试验条件				Post test requirements at +20°C 试验后特性应满足如下要求			
	Duration 持续时间	1,000 hours			Leakage current 漏电流	≤Initial specified value 初始规格值		
	Ambient temp. 环境温度	+105°C			Cap. Change 静电容量变化率	within ±20% of initial measured value 初始测试值的±20%内		
	Applied voltage 施加电压	(None) 无			D.F.(tan δ) 损失角正切值	≤200% of initial specified value 2倍初始规格值		
				♦(Before the measurements, the capacitor shall be pretreated by applying DC working voltage for 30min, after discharged and then stored under standard atmospheric conditions for 24-48 hours) 测试前应将电容在常温中施加工作电压30分钟, 放电后在标准气压下放置24~48小时				
Other 其他	JIS C-5101 (IEC 60384)							

CASE SIZE TABLE 尺寸图 (Unit : mm)



ΦD	8	10	13	16	18
F	3.5	5.0		7.5	
Φd	0.5 or 0.6	0.6		0.8	
α	(L < 20) 1.5			(L ≥ 20) 2.0	
β	(D < 20) 0.5			(D ≥ 20) 1.0	

Multiplier for Ripple Current vs. Frequency 纹波电流频率修正系数

Cap(µF)	120 Hz	1K Hz	10K Hz	100K Hz
1~5.6	0.35	0.65	0.80	1.00
6.8~180	0.50	0.75	0.90	1.00
≥220	0.85	0.85	0.94	1.00

Multiplier for Ripple Current vs. Temperature 纹波电流温度修正系数

Temperature	45°C	60°C	70°C	85°C	95°C	105°C
Multiplier	1.8	1.5	1.45	1.3	1.2	1.0

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STANDARD RATINGS 标准品一览表

Voltage(Code)		160V(2C)		200V(2D)		250V(2E)		350V (2V)	
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C
4.7	4P7					8×12	140	10×13	150
6.8	6P8					10×13	250	10×16	280
10	010	10×13	290	10×16	320	10×16	320	10×20	350
		10×16	320						
22	022	10×20	500	10×20	500	10×20	500	13×21	650
33	033	10×20	650	10×20	650	13×21	800	16×21	900
47	047	10×20	750	13×20	980	13×21	980	16×21	1080
68	068	13×21	1180	13×25	1300	16×21	1300	18×25	1470
82	082			16×21	1380	18×21	1380	18×25	1530
100	101	13×25	1420	16×25	1420	16×25	1530		
150	151	16×25	1890	18×32	1890	18×25	1940		
220	221	18×25	2370	18×36	2648				

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

Case Size ΦD x L(mm)

Voltage(Code)		400V(2G)		420V(2M)		450V(2W)		500V(2H)	
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C
1	001	8×12	60						
2.2	2P2	8×12	95						
3.3	3P3	10×13	150						
4.7	4P7	8×12	150			10×20	220		
		10×16	220						
5.6	5P6	10×16	250			10×20	250		
6.8	6P8	8×16	260			10×20	280	10×17	160
		10×13	270						
		10×16	280						
10	010	10×16	320			10×17	330	13×17	230
		10×20	350			13×21	450		
15	015	13×17	500			13×25	600	13×21	310
		13×21	550						
22	022	13×18	700			16×21	730		
		13×21	760						
33	033	13×21	650			16×25	980		
		16×21	900						
47	047	16×25	1180			18×25	1200		
68	068	18×25	1470						
		18×32	1490						
82	082	18×32	1510						
100	101	18×32	1540	12.5×55	1200				
120	121	18×36	1700						
150	151	18×45	1900						

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

Case Size ΦD x L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately