

TK Series

New

High Ripple Current , Load Life 8,000~12,000 hours.

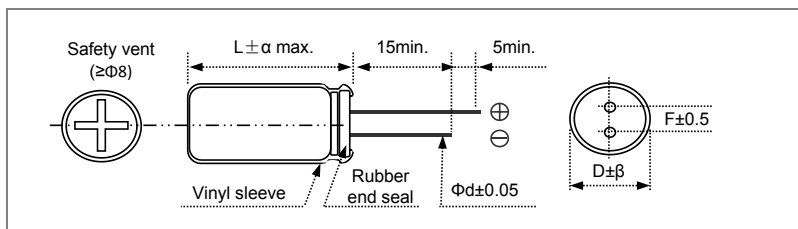
FEATURES 特点

1. High ripple current at high frequency, load life of 8,000~12,000 hours at 105°C.
2. For electronic ballast, power supply input circuit, 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	-25°C~ +105°C								
Rated Working Voltage Range 额定电压范围	160 to 500 VDC								
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) 损耗角正切值 (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	0.24	
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	6	6	6	6	
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	Case size	Life Time		Leakage current 漏电流	≤Initial specified value 初始规格值			
		8×12、10×13	8,000 hours			Cap. Change 静电容量变化率	within ±20% of initial measured value 初始测试值的±20%内		
		10×16、10×20	10,000 hours						
	ΦD≥13	12,000 hours		D.F.(tan δ) 损耗角正切值	≤200% of initial specified value 2倍初始规格值				
Ambient temp. 环境温度	+105°C				Before test requirement: Resumed 16 hours at normal temperature 测试前将电容在常温中放置16小时				
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)								
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) 损耗角正切值		≤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. 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.(μ F)	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	230	10×16	280
10	010	10×16	320	10×16	320	10×16	310	10×20	350
22	022	10×20	500	10×20	450	10×20	500	13×21	650
33	033	10×20	650	13×21	650	13×21	800	16×21	900
47	047	10×20	750	13×21	980	13×21	980	16×21	1080
68	068	13×21	1180	16×21	1000	16×21	1300	18×25	1470
100	101	13×25	1420	16×21	1400	16×25	1400		
150	151	16×25	1890	16×25	1890	18×25	1940		
220	221	18×25	2370						

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

Case Size Φ D x L(mm)

Voltage(Code)		400V(2G)		450V(2W)		500V(2H)			
Cap.(μ F)	Code	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	10×15	220	10×20	220				
5.6	5P6	10×15	250	10×20	250				
6.8	6P8	10×15	280	10×20	280				
10	010	10×20	350	13×21	450	13×21	320		
15	015	13×21	550	13×21	600	13×21	440		
22	022	13×25	760	16×21	730	16×21	560		
33	033	16×21	900	16×25	980	18×25	700		
47	047	16×25	1180	18×25	1200	18×32	880		
68	068	18×25	1470						

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

Case Size Φ D x L(mm)

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

Frequency Coefficient 频率系数

Cap(μ F)	120 Hz	1K Hz	10K Hz	100K Hz
1~5.6	0.20	0.40	0.80	1.00
6.8~15	0.30	0.60	0.90	1.00
22~82	0.40	0.70	0.90	1.00
100~220	0.45	0.75	0.90	1.00

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