

KP Series

Lug/Snap-in Terminal Type (插入/自立型) , Long Life Assurance at 85°C(长寿命品)

FEATURES 特点

- 1 . High ripple current,Load life of 5000 hours at 85°C.
- 2 . Used in switching power supplies,inverter.

SPECIFICATIONS 规格表

Item 项目	Performance Characteristics 特性参数								
Operation Temperature Range 工作温度范围	-40 to +85°C					-25 to +85°C			
Rated Working Voltage Range 额定电压范围	10 to 100V					160 to 450V			
Capacitance Tolerance 静电容量允许偏差	±20% (120HZ 20°C)								
Leakage Current 漏电流	LC≤3V CV (μA) after 5 minutes application of rated working voltage at +20°C 施加额定工作电压充电5分钟后读数。 [C : 静电容量(μF) , V : 额定电压(V)]								
Dissipaion Factor (tan δ) 损失角正切值 (120Hz,+20°C)	Working Voltage(V)	10	16	25	35	50	63	80	100
	tan δ(max.)	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.2
	Working Voltage(V)	160~250	350~400	450					
	tan δ(max)	0.15	0.2	0.2					
For capacitance value>33000μF,add following calculated value: $\frac{(\text{Rated capacitance})-33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$									
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)	10	16~35	50~100	160~250	350~400	450		
	Z-25°C/Z+20°C	5	4	3	4	8	8		
Z-40°C/Z+20°C	18	15	10	-	-	-			
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	5,000 hours			Leakage current 漏电流	≤Initial specified value 初始规格值			
	Ambient temp. 环境温度	+85°C			Cap. Change 静电容量变化率	within ±30% of initial measured value 初始测试值的±30%内			
	Applied voltage 施加电压	DC voltage with maximum permissible ripple current specified at +85°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	+85°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)								

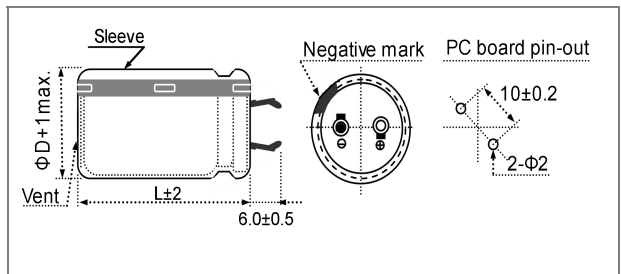
Multiplier for Ripple Current vs. Frequency

纹波电流频率修正系数

If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.

Freq.(Hz)	60	120	1K	10~50K
10~100V	0.90	1.00	1.15	1.25
160~250V	0.80	1.00	1.3	1.43
350~450V	0.80	1.00	1.3	1.43

CASE SIZE TABLE 尺寸图 (Unit : mm)



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Voltage(Code)		10V(1A)		16V(1C)		25V(1E)		35V(1V)	
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C
3300	332							22×25	1.80
3900	392							22×30	2.10
4700	472							22×30	2.20
								25×25	2.20
6800	682					22×30	2.30	22×40	2.90
								25×30	2.60
						25×25	2.30		
8200	822			22×25	2.20	22×35	2.60	22×50	3.00
						25×30	2.50	25×40	2.80
								30×30	2.80
10000	103	20×25	2.50	22×30	2.60	22×40	2.90	25×45	3.10
						25×30	2.80	30×35	3.20
						30×25	3.00	35×30	3.20
12000	123			22×35	2.90	22×45	3.30	25×50	3.50
		22×25	2.90			25×35	3.20	30×40	3.50
				25×25	2.80	30×30	3.40	35×30	3.60
15000	153			22×40	3.30			30×45	4.10
		22×30	3.20	25×30	3.30	25×40	3.70	35×35	4.10
		25×25	3.10	30×25	3.40	30×35	3.60		
18000	183			22×45	3.80			30×50	4.60
		22×35	3.60	25×35	3.70	30×35	4.30	35×40	4.70
		25×30	3.60	30×30	3.60	35×30	4.40		
22000	223	22×40	4.00	22×50	4.20	30×40	4.80	35×50	5.30
		25×35	4.10	25×40	4.20				
		30×25	4.10	30×30	4.20	35×35	5.00		

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size ΦD x L(mm)

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Voltage(Code)		50V(1H)		63V(1J)		80V(1K)		100V(2A)			
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C		
680	681							20×25	1.10		
820	821							20×30	1.20		
1000	102					22×25	1.3	22×30	1.4		
								25×25	1.4		
1200	122					22×30	1.5	22×35	1.6		
								25×30	1.6		
1500	152					22×30	1.8	22×40	1.8		
								25×35	1.7		
								25×25	1.7	30×25	1.8
1800	182					22×35	1.9	22×50	2.1		
								25×40	2		
								30×30	2.1		
								25×30	1.9	35×25	2.2
2200	222	22×25	1.7			22×40	2.1	25×45	2.2		
				22×30	2			25×35	2.2	30×35	2.3
				25×25	2			30×25	2.2	35×30	2.5
3300	332			22×40	2.3	25×45	2.8	30×45	3		
		22×30	2	25×35	2.3	30×35	2.8				
		25×25	1.9	30×25	2.3	35×25	2.7	35×35	3		
3900	392	22×35	2.1	22×45	2.5	25×30	3.1	30×50	3.4		
		25×30	2.1	25×45	2.6	30×40	3.2	35×40	3.4		
		30×25	2.4	30×30	2.6	35×30	3.2				
				35×25	2.7						
4700	472	22×40	2.4								
		25×35	2.4	25×40	2.8						
				30×35	2.70						
30×30	2.3	35×25	2.6								
6800	682	25×45	2.8			30×50	4.1				
		30×35	2.8	30×40	3.6						
		35×25	2.7	35×35	3.7						
8200	822	25×50	3.2	30×50	3.7						
		30×40	3								
		35×30	3			35×40	3.8				
10000	103	30×45	3.4	35×45	4.3						
		35×35	3.4								
12000	123	30×50	3.8	35×50	4.8						
		35×40	3.8								
15000	153	35×50	4.5								

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

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Voltage(Code)		160V(2C)		200V(2D)		250V(2E)		400V(2G)		450V(2W)	
Cap.(μF)	Code	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C	Case Size	R.C
47	047									22×25	0.51
68	068							22×25	0.61	22×30	0.65
100	101							22×30	0.79	22×35	0.88
										25×30	0.86
								25×25	0.80	30×25	0.90
120	121							22×35	0.92	22×40	0.97
										25×35	0.99
								25×30	0.92	30×30	0.99
150	151					22×25	0.91	22×40	1.1	22×40	1.09
								25×30	1.11	25×40	1.1
								30×25	1.15	30×30	1.1
220	221	22×25	1.1	22×25	1.1	22×30	1.2	22×50	1.4	25×50	1.5
								25×40	1.4	30×40	1.5
						25×25	1.2	30×35	1.4	35×30	1.5
330	331	22×30	1.3	22×30	1.4	22×45	1.6	30×45	2	35×40	2.1
				25×25	1.5	25×30	1.6	35×35	2		
						30×25	1.6				
470	471	22×35	1.8	22×40	1.8	22×50	2.1	35×45	2.6	35×50	2.7
						25×40	2.1				
		25×30	1.81	25×30	1.9	30×30	2				
						30×25	2.1				
560	561	22×35	1.9	22×45	2	25×40	2.35	35×50	2.9		
		25×30	1.9	25×35	2	30×35	2.35				
		30×25	2	30×30	2.1	35×30	2.35				
				35×25	2						
680	681	22×40	2.4	25×40	2.5	30×40	2.7				
		25×35	2.4	30×30	2.5	35×30	2.7				
		30×30	2.5	35×25	2.5						
820	821	22×50	2.85	25×40	2.8	30×45	2.7				
		25×40	2.75	30×35	2.8	35×35	2.7				
		30×30	2.75	35×30	2.80						
		35×25	2.75								
1000	102	25×45	3.1	30×40	3.3	35×40	3.6				
		30×35	3.1	35×35	3.5						
		35×30	3.1								
1200	122	25×50	3.5	30×50	3.65	35×45	3.9				
		30×40	3.6								
		35×35	3.5					35×40	3.65		
1500	152	30×45	4.2	35×45	4.6						
		35×40	4.4								
2000	222	35×50	5.8								

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