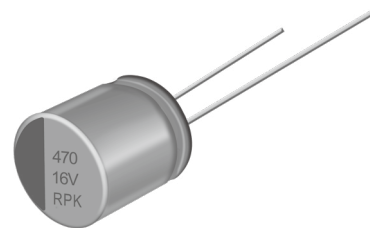


RPK Series 引线式导电聚合物固体铝电解电容器耐高温品

Higher Temperature . Conductive Polymer . Radial Lead Type

- 125°C 4000 小时 125°C 4000 hours
- 性能稳定，可靠性高 High stability and reliability
- 低 ESR、耐大纹波电流 Low ESR 、 High ripple current capability

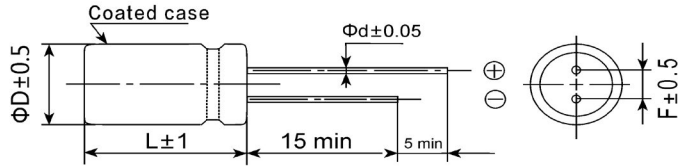
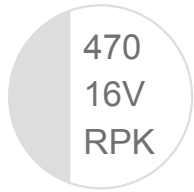


◆主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics	
使用温度范围 Operating Temperature Range	-55°C+125°C	
额定电压范围 Rated Voltage Range	6.3 ~ 63V. DC	
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)	
漏电流 (20°C) Leakage Current	施加额定工作电压 2 分钟, $I \leq 0.2 C_R U_R$ (μA) After 2 minutes application of rated voltage, the leakage current is not more than 0.2 $C_R U_R$	
损耗角正切值 (120Hz 20°C) Dissipation Factor	测试频率 120Hz/ 温度 20°C, 损耗小于规范值 Less than the specified value at 120Hz, 20°C	
等效串联电阻 Equivalent Series Resistance	测试频率 100KHz/ 温度 20°C, 等效串联电阻小于规范值 Less than the specified value at 100KHz, 20°C	
耐久性 Load Life(105°C, 2000hrs)	在 125°C 环境施加额定工作电压 4000 小时后, 电容器的特性符合下表要求。 After 4000 hours' application of rated voltage at +125°C, capacitors meet the characteristics requirements listed .	
	电容量变化率 Capacitance Change	初始值的 ±20% 以内 Within ±20% of the initial value
	漏电流值 Leakage	≤规范值 Less than the specified value
	损耗角正切值 Dissipation Factor	≤规范值的 150% Less than 150% of the specified value
	等效串联电阻 Equivalent Series Resistance	≤规范值的 150% Less than 150% of the specified value
耐湿温特性 Damp heat(Steady state) (60°C, 90~95%RH, 1000hrs)	在温度为 60°C、湿度为 90~95%RH 的环境中, 1000 小时后, 电容器的特性符合下表要求。 60°C, 90 to 95%RH, 1000h, No applied voltage capacitors meet the characteristics requirements listed .	
	电容量变化率 Capacitance Change	初始值的 ±20% 以内 Within ±20% of the initial value
	漏电流值 Leakage	≤规范值 Less than the specified value
	损耗角正切值 Dissipation Factor	≤规范值的 150% Less than 150% of the specified value
	等效串联电阻 Equivalent Series Resistance	≤规范值的 150% Less than 150% of the specified value

◆外形图及尺寸 Case size table

mm



$\phi D \times L$	ϕD	L	F	ϕd
5×7	5	7	2.0	0.5
5×8	5	8	2.0	0.5
6.3×5	6.3	5	2.5	0.5
6.3×8	6.3	8	2.5	0.5/0.6
8×8	8	8	3.5	0.6
8×12	8	12	3.5	0.6
10×12	10	12	5.0	0.6

◆编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance (μF)	产品编码 Part Number	等效串联电阻 ESR(m Ω max) 100Khz to 300Khz	耐纹波电流 (mA rms/ 125 $^{\circ}C$, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max)(μA)	尺寸 $\phi D \times L$ (mm)
6.3	220	RPK0J221M0507	20	2610	0.12	277	5×7
	270	RPK0J271M0507	20	2610	0.12	340	5×7
	330	RPK0J331M0605	19	2900	0.12	416	6.3×5
	470	RPK0J471M0608	18	3200	0.12	592	6.3×8
	560	RPK0J561M0608	18	3200	0.12	706	6.3×8
	560	RPK0J561M0808	16	4080	0.12	706	8×8
	680	RPK0J681M0808	16	4080	0.12	857	8×8
	820	RPK0J821M0812	15	4520	0.12	1033	8×12
	1000	RPK0J102M0812	15	4520	0.12	1260	8×12
	1000	RPK0J102M1012	14	4520	0.12	1260	10×12
	1500	RPK0J152M1012	14	4520	0.12	1890	10×12
10	100	RPK1A101M0507	20	1970	0.12	200	5×7
	220	RPK1A221M0608	18	3200	0.12	440	6.3×8
	330	RPK1A331M0608	18	3200	0.12	660	6.3×8
	330	RPK1A331M0808	16	4080	0.12	660	8×8
	470	RPK1A471M0808	16	4080	0.12	940	8×8
	470	RPK1A471M0812	15	4520	0.12	940	8×12
	560	RPK1A561M0812	15	4520	0.12	1120	8×12
	680	RPK1A681M0812	15	4520	0.12	1360	8×12
	820	RPK1A821M0812	15	4520	0.12	1640	8×12
	1000	RPK1A102M0812	15	4520	0.12	2000	8×12
	1000	RPK1A102M1012	14	5100	0.12	2000	10×12
16	100	RPK1C101M0605	25	2610	0.12	320	6.3×5
	100	RPK1C101M0608	18	3200	0.12	320	6.3×8
	150	RPK1C151M0808	16	3500	0.12	704	8×8
	220	RPK1C221M0808	16	3500	0.12	704	8×8
	270	RPK1C271M0808	16	3500	0.12	864	8×8
	330	RPK1C331M0812	15	4520	0.12	1056	8×12
	390	RPK1C391M0812	15	4520	0.12	1248	8×12
	470	RPK1C471M0812	15	4520	0.12	1504	8×12
	470	RPK1C471M1012	14	4720	0.12	1504	10×12
	560	RPK1C561M1012	14	4720	0.12	1792	10×12

◆ 编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance (μF)	产品编码 Part Number	等效串联电阻 ESR($\text{m}\Omega$ max) 100Khz to 300Khz	耐纹波电流 (mA rms/ 125°C, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max)(μA)	尺寸 $\Phi\text{D}\times\text{L}$ (mm)
25	68	RPK1E680M0608	45	1200	0.12	340	6.3×8
	68	RPK1E680M0808	30	2000	0.12	340	8×8
	82	RPK1E820M0808	28	2000	0.12	410	8×8
	100	RPK1E101M0808	24	2000	0.12	500	8×8
	120	RPK1E121M0812	18	2300	0.12	600	8×12
	180	RPK1E181M0812	18	2300	0.12	900	8×12
	220	RPK1E221M0812	18	2300	0.12	1100	8×12
	270	RPK1E271M0812	18	2300	0.12	1350	8×12
	330	RPK1E331M0812	18	2300	0.12	1650	8×12
	470	RPK1E471M0812	18	2300	0.12	2350	8×12
	470	RPK1E471M1012	16	2880	0.12	2350	10×12
	560	RPK1E561M1012	16	2880	0.12	2800	10×12
680	RPK1E681M1012	16	2880	0.12	3400	10×12	
35	39	RPK1V390M0605	26	2100	0.12	273	6.3×5
	56	RPK1V560M0605	26	2100	0.12	392	6.3×5
	100	RPK1V101M0609	26	2100	0.12	700	6.3×9
	150	RPK1V151M0808	25	2350	0.12	1050	8×8
	180	RPK1V181M0812	23	2890	0.12	1260	8×12
	220	RPK1V221M0812	23	2890	0.12	1540	8×12
	330	RPK1V331M1012	24	3400	0.12	2310	10×12
	390	RPK1V391M1012	24	3400	0.12	2730	10×12
50	22	RPK1H220M0808	35	1800	0.12	220	8×8
	27	RPK1H270M0812	28	2600	0.12	270	8×12
	47	RPK1H470M0812	28	2600	0.12	470	8×12
	120	RPK1H121M0812	28	2600	0.12	1200	8×12
	180	RPK1H181M1012	25	3100	0.12	1800	10×12
	220	RPK1H221M1012	25	3100	0.12	2200	10×12
63	82	RPK1J820M0812	30	2500	0.12	1033	8×12
	100	RPK1J101M1012	25	2900	0.12	1260	10×12
	150	RPK1J151M1012	25	2900	0.12	1890	10×12
	180	RPK1J181M1012	25	2900	0.12	2268	10×12

◆ 纹波电流频率补偿系数 Frequency coefficient of allowable ripple current

频率 Frequency	$120\text{Hz} \leq f < 1\text{KHz}$	$1\text{KHz} \leq f < 10\text{KHz}$	$10\text{KHz} \leq f < 100\text{KHz}$	$100\text{KHz} \leq f < 500\text{KHz}$
系数 Coefficient	0.05	0.30	0.70	1.00

◆ 纹波电流温度补偿系数 Temperature coefficient of allowable ripple current

温度°C Temp.	+60	+70	+85	+105	+125
系数 Coefficient	1.73	1.62	1.43	1.25	1.00