

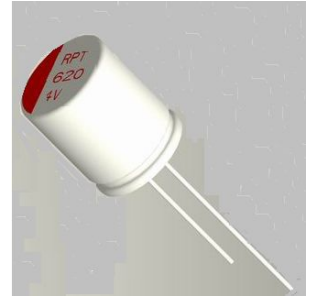
## RPK Series 引线式导电聚合物固体电解电容器耐高温品

Higher Temperature Conductive Polymer Aluminum Solid Electrolytic Capacitor of Radial Lead Type

### ■ 特性 Features

- 125℃、2000 小时 125℃、2000 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

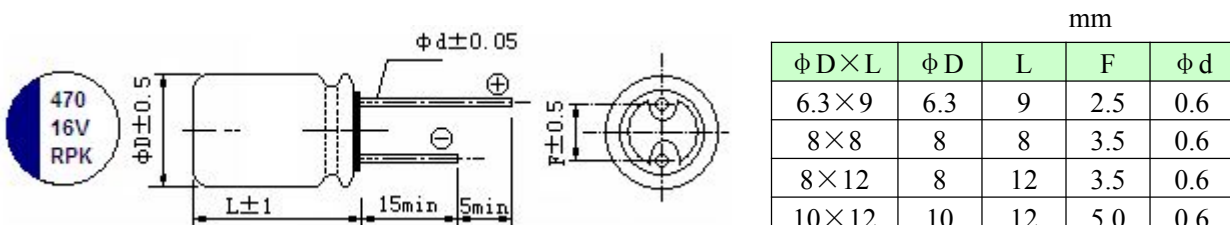
**NEW**



### ■ 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~+125℃	
额定电压范围 Rated Voltage Range	2.5~20V.DC	
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20℃)	
漏电流(20℃) Leakage Current	施加额定工作电压 2 分钟, $I \leq 0.2C_R U_R (\mu A)$ after 2 minutes' application of rated voltage, the leakage current is not more than $0.2C_R U_R (\mu A)$	
损耗角正切值 Dissipation Factor (120Hz 20℃)	测试频率 120Hz/温度 20℃, 损耗小于规范值 Less than the specified value at 120Hz, 20℃	
等效串联电阻 Equivalent Series Resistance	测试频率 100KHz/温度 20℃, 等效串联电阻小于规范值 Less than the specified value at 100KHz, 20℃	
纹波电流 Ripple Current	小于规范值 Less than the specified value	
耐久性 Load Life	在 125℃ 环境施加额定工作电压 2000 小时后, 电容器的特性符合下表要求。 After 2000 hours' application of rated voltage at +125℃, 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
耐湿温特性 Damp heat( Steady state) (60℃,90~95%RH,5000hrs)	在温度为 60℃、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℃, 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



## RPK Series

### ■ 编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance ( $\mu$ F)	产品编码 Part Number	等效串联电阻 (m $\Omega$ ) ESR 100-300KHz 20 $^{\circ}$ C	耐纹波电流 (mA rms) Max. Ripple Current 100KHz at 125 $^{\circ}$ C	损耗 Tan $\delta$ (120Hz)	漏电流 ( $\mu$ A) Leakage Current	尺寸 (mm) $\Phi$ D $\times$ L
2.5	560	RPK0E561M0808	16	3900	0.10	280	8 $\times$ 8
	680	RPK0E681M0808	16	3900	0.10	340	8 $\times$ 8
	820	RPK0E821M0808	16	4080	0.10	410	8 $\times$ 8
	1000	RPK0E102M0812	15	4520	0.10	500	8 $\times$ 12
	1500	RPK0E152M0812	15	4820	0.10	750	8 $\times$ 12
	1500	RPK0E152M1012	14	5440	0.10	750	10 $\times$ 12
4	560	RPK0G561M0808	16	4080	0.10	448	8 $\times$ 8
	680	RPK0G681M0808	16	4080	0.10	544	8 $\times$ 8
	820	RPK0G821M0808	16	4080	0.10	656	8 $\times$ 8
	1000	RPK0G102M0812	15	4520	0.10	800	8 $\times$ 12
	1200	RPK0G122M0812	15	4520	0.10	960	8 $\times$ 12
	1500	RPK0G152M1012	14	5440	0.10	1200	10 $\times$ 12
6.3	220	RPK0J221M0808	16	3900	0.10	277	8 $\times$ 8
	270	RPK0J271M0808	16	3900	0.10	340	8 $\times$ 8
	330	RPK0J331M0808	16	3900	0.10	416	8 $\times$ 8
	470	RPK0J471M0808	16	4080	0.10	592	8 $\times$ 8
	560	RPK0J561M0808	16	4080	0.10	706	8 $\times$ 8
	680	RPK0J681M0808	16	4080	0.10	857	8 $\times$ 8
	820	RPK0J821M0812	15	4520	0.10	1033	8 $\times$ 12
	1000	RPK0J102M0812	15	4520	0.10	1260	8 $\times$ 12
	1000	RPK0J102M1012	14	4520	0.10	1260	10 $\times$ 12
	1500	RPK0J152M1012	14	4520	0.10	1890	10 $\times$ 12
10	150	RPK1A151M0808	16	4080	0.10	300	8 $\times$ 8
	220	RPK1A221M0808	16	4080	0.10	440	8 $\times$ 8
	330	RPK1A331M0808	16	4080	0.10	660	8 $\times$ 8
	470	RPK1A471M0808	16	4080	0.10	940	8 $\times$ 8
	560	RPK1A561M0808	16	4080	0.10	1120	8 $\times$ 8
	680	RPK1A681M0812	15	4520	0.10	1360	8 $\times$ 12
	820	RPK1A821M0812	15	4520	0.10	1640	8 $\times$ 12
	1000	RPK1A102M0812	15	4520	0.10	2000	8 $\times$ 12
	1000	RPK1A102M1012	14	5100	0.10	2000	10 $\times$ 12
16	100	RPK1C101M0808	16	3400	0.10	320	8 $\times$ 8
	180	RPK1C181M0808	16	3500	0.10	576	8 $\times$ 8
	220	RPK1C221M0808	16	3500	0.10	704	8 $\times$ 8
	220	RPK1C221M0812	15	3640	0.10	704	8 $\times$ 12
	270	RPK1C271M0808	16	3500	0.10	864	8 $\times$ 8
	270	RPK1C271M0812	15	3640	0.10	864	8 $\times$ 12
	330	RPK1C331M0812	15	4520	0.10	1056	8 $\times$ 12
	330	RPK1C331M1012	14	4720	0.10	1056	10 $\times$ 12
	470	RPK1C471M0812	15	4520	0.10	1504	8 $\times$ 12
	470	RPK1C471M1012	14	4720	0.10	1504	10 $\times$ 12
20	560	RPK1C561M1012	14	4720	0.10	1792	10 $\times$ 12
	47	RPK1D470M0808	28	3200	0.10	188	8 $\times$ 8
	68	RPK1D680M0808	25	3400	0.10	272	8 $\times$ 8
	82	RPK1D820M0808	25	3400	0.10	328	8 $\times$ 8
	100	RPK1D101M0812	23	3600	0.10	400	8 $\times$ 12
	150	RPK1D151M0812	23	3600	0.10	600	8 $\times$ 12
	180	RPK1D181M0812	23	3900	0.10	720	8 $\times$ 12
	180	RPK1D181M1012	20	4500	0.10	720	10 $\times$ 12
	220	RPK1D221M1012	20	4500	0.10	880	10 $\times$ 12
	270	RPK1D271M1012	18	4500	0.10	1080	10 $\times$ 12
	330	RPK1D331M1012	18	4500	0.10	1320	10 $\times$ 12

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

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