

## 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 Aluminum Solid Electrolytic Capacitor of Radial Lead Type



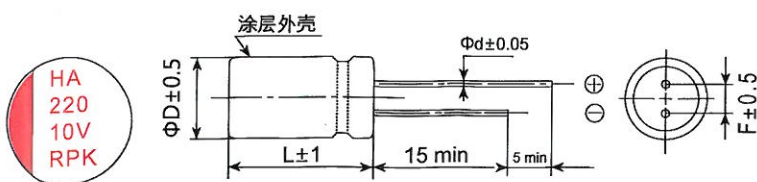
- 125℃、2000 小时      125℃、2000 hours
- 性能稳定，可靠性高      High stability and reliability
- 低 ESR、耐大纹波电流      Low ESR、High ripple current capability



### ■ 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	2.5~25V. 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, $I \leq 0.2 C_R U_R$ (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℃) Dissipation Factor	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℃	
耐久性 Load Life(125℃,2000hrs)	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
	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℃,90~95%RH,1000hrs)	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



mm				
$\phi D \times L$	$\phi D$	L	F	$\phi d$
5×7	5	5.8	2.0	0.5
5×8	5	8	2.0	0.5
6.3×6	6.3	6	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

### 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 ESR( $m\Omega$ max) 100Khz to 300Khz	耐纹波电流 (mA rms/ 105°C, 100Khz)	损耗 Tan $\delta$ (120Hz)	漏电流 (max) ( $\mu$ A)	尺寸 $\Phi D \times L$ (mm)
2.5	270	RPK0E271M0507	30	1970	0.12	135	5×7
	330	RPK0E331M0606	25	2610	0.12	165	6.3×6
	470	RPK0E471M0608	18	3200	0.12	235	6.3×8
	560	RPK0E561M0606	25	2610	0.12	280	6.3×6
	560	RPK0E561M0608	18	3200	0.12	280	6.3×8
	680	RPK0E681M0808	16	3900	0.12	340	8×8
	820	RPK0E821M0808	16	4080	0.12	410	8×8
	1000	RPK0E102M0812	15	4520	0.12	500	8×12
	1500	RPK0E152M0812	15	4820	0.12	750	8×12
	2200	RPK0E222M1012	14	5440	0.12	1100	10×12
6.3	220	RPK0J221M0606	25	2610	0.12	277	6.3×6
	270	RPK0J271M0507	30	1970	0.12	340	5×7
	330	RPK0E331M0608	18	3200	0.12	416	6.3×8
	470	RPK0E471M0608	18	3200	0.12	592	6.3×8
	560	RPK0E561M0608	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	30	1970	0.12	200	5×7
	220	RPK1A221M0608	18	3200	0.12	440	6.3×8
	220	RPK1A221M0808	16	4080	0.12	440	8×8
	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	RPK1C101M0606	25	2610	0.12	320	6.3×6
	100	RPK1C101M0608	18	3200	0.12	320	6.3×8
	220	RPK1C221M0808	16	3500	0.12	704	8×8
	220	RPK1C221M0812	15	3640	0.12	704	8×12
	270	RPK1C271M0808	16	3500	0.12	864	8×8
	330	RPK1C331M0812	15	4520	0.12	1056	8×12
	330	RPK1C331M1012	14	4720	0.12	1056	10×12
	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
25	68	RPK1E680M0608	45	1200	0.12	340	6.3×8
	68	RPK1E680M0808	35	1500	0.12	340	8×8
	82	RPK1E820M0808	35	1500	0.12	410	8×8
	100	RPK1E101M0812	28	1600	0.12	500	8×12
	220	RPK1E221M1012	25	2800	0.12	1100	10×12
	270	RPK1E271M1012	25	2800	0.12	1350	10×12
	330	RPK1E331M1012	25	2800	0.12	1650	10×12
470	RPK1E471M1012	25	2800	0.12	2350	10×12	

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

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