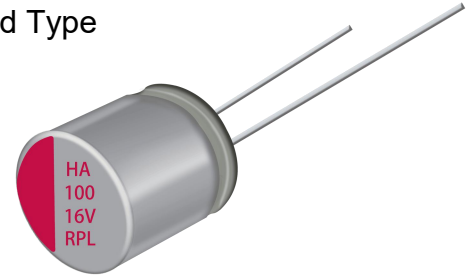


RPL Series 引线式导电聚合物固体铝电解电容器高容量长寿命品

Higher Capacitance and Long Life . Conductive Polymer . Radial Lead Type

- 高容量、105℃、5000 小时 Higher Capacitance 、 105℃、 5000 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



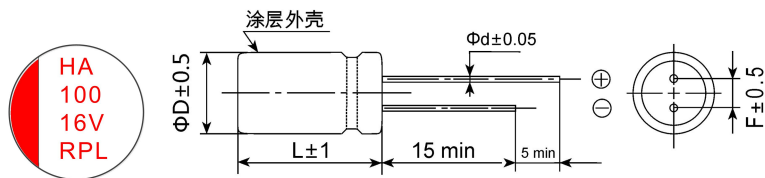
■ 主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics								
使用温度范围 Operating Temperature Range	-55~+105℃								
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(105℃, 5000hrs)	<p>在 105℃环境施加额定工作电压 5000 小时后,电容器的特性符合下表要求。 After 5000 hours' application of rated voltage at +105℃, capacitors meet the characteristics requirements listed .</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>初始值的±20%以内 Within ±20% of the initial value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤规范值 Less than the specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤规范值的 150% Less than 150% of the specified value</td> </tr> <tr> <td>等效串联电阻 Equivalent Series Resistance</td> <td>≤规范值的 150% Less than 150% of the specified value</td> </tr> </table>	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
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)	<p>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 .</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>初始值的±20%以内 Within ±20% of the initial value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤规范值 Less than the specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤规范值的 150% Less than 150% of the specified value</td> </tr> <tr> <td>等效串联电阻 Equivalent Series Resistance</td> <td>≤规范值的 150% Less than 150% of the specified value</td> </tr> </table>	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
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								

RPL Series

外形图及尺寸 Case size table

mm



ΦD×L	ΦD	L	F	Φd
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
10×16	10	16	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(mΩ max) 100KHz to 300KHz	耐纹波电流 (mA rms/ 105℃, 100KHz)	损耗 Tan δ (120Hz)	漏电流 (max) (μA)	尺寸 ΦD×L (mm)
2.5	390	RPL0E471M0606	15	4100	0.12	195	6.3×5
	470	RPL0E471M0606	15	4100	0.12	235	6.3×5
	560	RPL0E561M0606	15	4100	0.12	280	6.3×5
	560	RPL0E561M0608	14	5000	0.12	280	6.3×8
	680	RPL0E681M0608	14	5000	0.12	340	6.3×8
	820	RPL0E821M0608	14	5000	0.12	410	6.3×8
	820	RPL0E821M0808	14	6100	0.12	410	8×8
	1000	RPL0E102M0808	14	6100	0.12	500	8×8
	1000	RPL0E102M0812	15	4520	0.12	500	8×12
	1500	RPL0E152M0812	15	4820	0.12	750	8×12
	1500	RPL0E152M1012	14	5440	0.12	750	10×12
6.3	2200	RPL0E222M1012	14	5440	0.12	1100	10×12
	47	RPL0E470M0506	30	1900	0.12	60	5×6
	100	RPL0E101M0606	35	2100	0.12	126	6.3×5
	220	RPL0E221M0606	22	2500	0.12	277	6.3×5
	330	RPL0E331M0606	22	2500	0.12	416	6.3×5
	470	RPL0E471M0608	16	4700	0.12	592	6.3×8
	560	RPL0E561M0608	16	4700	0.12	706	6.3×8
	680	RPL0J681M0608	16	4700	0.12	857	6.3×8
	820	RPL0J821M0609	16	4700	0.12	1033	6.3×9
	820	RPL0J821M0808	12	5700	0.12	1033	8×8
	1000	RPL0J102M0808	12	5700	0.12	1260	8×8
	1500	RPL0J152M0812	15	5400	0.12	1890	8×12
	1800	RPL0J182M1012	10	5500	0.12	2268	10×12
	2200	RPL0J222M1012	10	5440	0.12	2772	10×12
	2700	RPL0J272M1016	10	5800	0.12	3402	10×16
3300	RPL0J332M1016	10	5800	0.12	4158	10×16	

RPL Series

■ 编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance (μ 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 $^{\circ}$ C, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max) (μ A)	尺寸 Φ D \times L (mm)
10	33	RPL1A330M0506	30	1900	0.12	66	5 \times 6
	68	RPL1A680M0506	30	1900	0.12	136	5 \times 6
	120	RPL1A121M0606	30	2700	0.12	240	6.3 \times 5
	150	RPL1A151M0606	30	2700	0.12	300	6.3 \times 5
	220	RPL1A221M0608	18	3200	0.12	440	6.3 \times 8
	330	RPL1A331M0608	18	3200	0.12	660	6.3 \times 8
	330	RPL1A331M0808	16	3900	0.12	660	8 \times 8
	470	RPL1A471M0808	16	3900	0.12	940	8 \times 8
	560	RPL1A561M0808	16	3900	0.12	1120	8 \times 8
	560	RPL1A561M0812	15	4520	0.12	1120	8 \times 12
	680	RPL1A681M0812	15	4520	0.12	1360	8 \times 12
	820	RPL1A821M0812	15	4520	0.12	1640	8 \times 12
	820	RPL1A821M1010	15	4300	0.12	1640	10 \times 10
	1000	RPL1A102M0812	15	4520	0.12	2000	8 \times 12
	1000	RPL1A102M1012	14	5100	0.12	2000	10 \times 12
	1200	RPL1A122M1012	13	4800	0.12	2400	10 \times 12
	1500	RPL1A152M1012	14	5100	0.12	3000	10 \times 12
1800	RPL1A182M1016	13	5440	0.12	3600	10 \times 16	
2200	RPL1A222M1016	13	5440	0.12	4400	10 \times 16	
16	22	RPL1C220M0506	60	1500	0.12	70	5 \times 6
	39	RPL1C390M0506	60	1500	0.12	125	5 \times 6
	82	RPL1C820M0606	30	2700	0.12	262	6.3 \times 5
	100	RPL1C101M0606	30	2700	0.12	320	6.3 \times 5
	100	RPL1C101M0608	25	2820	0.12	320	6.3 \times 8
	120	RPL1C121M0808	25	2820	0.12	576	6.3 \times 8
	180	RPL1C181M0808	25	2820	0.12	576	6.3 \times 8
	270	RPL1C271M0608	25	2820	0.12	864	6.3 \times 8
	270	RPL1C271M0808	22	3300	0.12	864	8 \times 8
	270	RPL1C271M0810	20	3600	0.12	864	8 \times 10
	270	RPL1C271M0812	18	3900	0.12	864	8 \times 12
	330	RPL1C331M0812	18	3900	0.12	1056	8 \times 12
	390	RPL1C391M0812	18	3900	0.12	1504	8 \times 12
	470	RPL1C471M0808	22	3300	0.12	1504	8 \times 8
	470	RPL1C471M0812	18	3900	0.12	1504	8 \times 12
	470	RPL1C471M1010	16	4200	0.12	1504	10 \times 10
	560	RPL1C561M1010	16	4200	0.12	1792	10 \times 10
	680	RPL1C681M0812	18	3900	0.12	2176	8 \times 12
	820	RPL1C821M0812	18	3900	0.12	2624	8 \times 12
	1000	RPL1C102M1012	12	5400	0.12	3200	10 \times 12
1200	RPL1C122M1012	12	5400	0.12	3840	10 \times 12	
1500	RPL1C152M1016	13	5440	0.12	4800	10 \times 16	

RPL Series

■ 编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance (μ 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 $^{\circ}$ C, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max) (μ A)	尺寸 Φ D \times L (mm)
25	12	RPL1E120M0506	70	1200	0.12	60	5 \times 6
	33	RPL1E330M0506	70	1200	0.12	165	5 \times 6
	56	RPL1E560M0606	45	1500	0.12	280	6.3 \times 5
	68	RPL1E680M0606	45	1500	0.12	340	6.3 \times 5
	82	RPL1E820M0606	45	1500	0.12	410	6.3 \times 5
	100	RPL1E101M0608	40	1200	0.12	500	6.3 \times 8
	150	RPL1E151M0608	40	1200	0.12	750	6.3 \times 8
	180	RPL1E181M0808	35	1600	0.12	900	8 \times 8
	220	RPL1E221M0808	35	1500	0.12	1100	8 \times 8
	270	RPL1E271M1012	25	2800	0.12	1350	10 \times 12
330	RPL1E331M1012	25	2800	0.12	1650	10 \times 12	
470	RPL1E471M1012	25	2800	0.12	2350	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

■ 纹波电流温度补偿系数

温度 $^{\circ}$ C	+40	+55	+70	+85	+105
系数	2.5	2.1	1.8	1.5	1.00