

RPT Series 引线式导电聚合物固体铝电解电容器标准品

Standard Conductive Polymer Aluminum Solid Electrolytic Capacitor of Radial Lead Type



■ 特性 Features

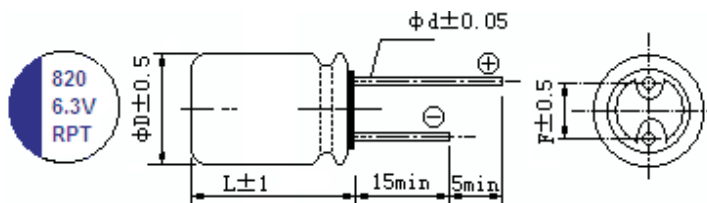
- 105°C、2000小时 105°C、2000 hours
- 性能稳定，可靠性高 High stability and reliability
- 低ESR、耐大纹波电流 Low ESR、High ripple current capability



■ 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 ~ +105°C									
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°C)									
漏电流(20°C) Leakage Current	施加额定工作电压 2 分钟, $I \leq 0.15C_R U_R (\mu A)$ After 2 minutes' application of rated voltage, the leakage current is not more than $0.15C_R U_R (\mu A)$									
损耗角正切值(120Hz 20°C) Dissipation Factor	测试频率 120Hz/20°C, 损耗小于规范值 Less than the specified value at 120Hz, 20°C									
等效串联电阻 ESR Equivalent Series Resistance	测试频率 100KHz/温度 20°C, 等效串联电阻 ESR 小于规范值 Less than the specified value at 100KHz, 20°C									
纹波电流 Ripple Current	小于规范值 Less than the specified value									
耐久性 Load Life(105°C,2000hrs)	在 105 环境施加额定工作电压 2000 小时后, 电容器的特性符合右表要求。 After applying rated voltage for 2000 hours at +105°C, capacitors meet the characteristics requirements listed at right.	<table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>± 20% 初始值以内 Within ± 20% of 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	± 20% 初始值以内 Within ± 20% of 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
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在温度为 60、湿度为 90~95% RH 的环境中, 1000 小时后, 电容器的特性符合右表要求。 60°C, 90 to 95%RH, 1000hours, No applied voltage capacitors meet the characteristics requirements listed at right.	<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 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 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	
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耐湿温特性 Damp heat(Steady state) (60°C,90~95%RH,1000hrs)										

■ 外形图及尺寸 Case size table



mm				
φD × L	φD	L	F	φd
8 × 8	8	8	3.5	0.6
8 × 12	8	12	3.5	0.6
10 × 12	10	12	5.0	0.6

RPT Series

■ 编码和规格 Part Number & Specifications

工作电压(V) Rated Voltage	标称容量 Capacitance (μ F)	产品编码 Part Number	等效串联电阻 ESR 100KHz to 300KHz (m Ω max)	耐纹波电流 100KHz (mA rms)at 105 $^{\circ}$ C	损耗 Tan δ (120Hz)	漏电流 (max) (μ A)	尺寸 Φ D \times L (mm)
2.5	560	RPT0E561M0808	16	4080	0.10	210	8 \times 8
	680	RPT0E681M0808	16	4080	0.10	255	8 \times 8
	820	RPT0E821M0808	16	4080	0.10	307	8 \times 8
	820	RPT0E821M0812	15	4520	0.10	307	8 \times 12
	1000	RPT0E102M0812	15	4520	0.10	375	8 \times 12
	1500	RPT0E152M0812	15	4820	0.10	562	8 \times 12
	1500	RPT0E152M1012	14	5100	0.10	562	10 \times 12
	2200	RPT0E222M1012	14	5100	0.10	825	10 \times 12
	2700	RPT0E272M1012	14	5230	0.10	1012	10 \times 12
	3300	RPT0E332M1012	14	5230	0.10	1237	10 \times 12
	3900	RPT0E392M1012	14	5440	0.10	1462	10 \times 12
4700	RPT0E472M1012	14	5440	0.10	1762	10 \times 12	
4	560	RPT0G561M0808	16	4080	0.10	336	8 \times 8
	680	RPT0G681M0808	16	4080	0.10	408	8 \times 8
	820	RPT0G821M0808	16	4080	0.10	492	8 \times 8
	820	RPT0G821M0812	15	4520	0.10	492	8 \times 12
	1000	RPT0G102M0812	15	4520	0.10	600	8 \times 12
	1000	RPT0G102M1012	14	5100	0.10	600	10 \times 12
	1200	RPT0G122M0812	15	4520	0.10	720	8 \times 12
	1200	RPT0G122M1012	14	5100	0.10	720	10 \times 12
	1500	RPT0G152M0812	15	4520	0.10	900	8 \times 12
	1500	RPT0G152M1012	14	5440	0.10	900	10 \times 12
	2200	RPT0G222M1012	14	5400	0.10	1320	10 \times 12
	2700	RPT0G272M1012	14	5400	0.10	1620	10 \times 12
	3300	RPT0G332M1012	14	5400	0.10	1980	10 \times 12
6.3	470	RPT0J471M0808	16	4080	0.10	444	8 \times 8
	560	RPT0J561M0808	16	4080	0.10	529	8 \times 8
	680	RPT0J681M0808	16	4080	0.10	642	8 \times 8
	820	RPT0J821M0808	16	4080	0.10	775	8 \times 8
	820	RPT0J821M0812	15	4520	0.10	775	8 \times 12
	1000	RPT0J102M0812	15	5100	0.10	945	8 \times 12
	1000	RPT0J102M1012	14	5400	0.10	945	10 \times 12
	1500	RPT0J152M1012	14	5400	0.10	1418	10 \times 12
	1800	RPT0J182M1012	14	5400	0.10	1701	10 \times 12
	2200	RPT0J222M1012	14	5400	0.10	2079	10 \times 12
10	150	RPT1A470M0808	16	4080	0.10	225	8 \times 8
	220	RPT1A221M0808	16	4080	0.10	330	8 \times 8
	330	RPT1A331M0808	16	4080	0.10	495	8 \times 8
	470	RPT1A471M0812	15	4080	0.10	705	8 \times 12
	560	RPT1A561M0812	15	4080	0.10	840	8 \times 12
	680	RPT1A681M0812	15	4520	0.10	1020	8 \times 12
	820	RPT1A821M0812	15	4520	0.10	1230	8 \times 12
	1000	RPT1A102M0812	15	4520	0.10	1500	8 \times 12
	1000	RPT1A102M1012	14	5100	0.10	1500	10 \times 12
	1500	RPT1A152M1012	14	5100	0.10	2250	10 \times 12

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■ 编码和规格 Part Number & Specifications

工作电压(V) Rated Voltage	标称容量 Capacitance (μ F)	产品编码 Part Number	等效串联电阻 ESR 100KHz to 300KHz ($m\Omega$ max)	耐纹波电流 100KHz (mA rms)at 105°C	损耗 Tan δ (120Hz)	漏电流 (max) (μ A)	尺寸 Φ D \times L (mm)
16	100	RPT1C101M0808	16	3400	0.10	240	8 \times 8
	180	RPT1C181M0808	16	3500	0.10	432	8 \times 8
	220	RPT1C221M0808	16	3500	0.10	528	8 \times 8
	220	RPT1C221M0812	15	3640	0.10	528	8 \times 12
	270	RPT1C271M0808	16	3500	0.10	648	8 \times 8
	270	RPT1C271M0812	15	3640	0.10	648	8 \times 12
	330	RPT1C331M0812	15	4520	0.10	732	8 \times 12
	330	RPT1C331M1012	14	4720	0.10	732	10 \times 12
	470	RPT1C471M0812	15	4520	0.10	1128	8 \times 12
	470	RPT1C471M1012	14	4800	0.10	1128	10 \times 12
	560	RPT1C561M1012	14	4820	0.10	1344	10 \times 12
	680	RPT1C681M1012	14	5100	0.10	1632	10 \times 12
820	RPT1C821M1012	14	5100	0.10	1968	10 \times 12	
20	47	RPT1D470M0808	28	3200	0.10	141	8 \times 8
	68	RPT1D680M0808	25	3400	0.10	204	8 \times 8
	68	RPT1D680M0812	23	3600	0.10	204	8 \times 12
	82	RPT1D820M0808	25	3400	0.10	246	8 \times 8
	82	RPT1D820M0812	23	3600	0.10	246	8 \times 12
	100	RPT1D101M0808	25	3400	0.10	300	8 \times 8
	100	RPT1D101M0812	23	3600	0.10	300	8 \times 12
	150	RPT1D151M0808	25	3400	0.10	450	8 \times 8
	150	RPT1D151M0812	23	3600	0.10	450	8 \times 12
	180	RPT1D181M0812	23	3900	0.10	540	8 \times 12
	180	RPT1D181M1012	20	4500	0.10	540	10 \times 12
	220	RPT1D221M0812	23	3900	0.10	660	8 \times 12
	220	RPT1D221M1012	20	4500	0.10	660	10 \times 12
	270	RPT1D271M1012	18	4500	0.10	810	10 \times 12
	330	RPT1D331M1012	18	4500	0.10	990	10 \times 12
390	RPT1D391M1012	18	4500	0.10	1170	10 \times 12	
470	RPT1D471M1012	18	4500	0.10	1410	10 \times 12	
25	10	RPT1E100M0808	41	1400	0.10	38	8 \times 8
	22	RPT1E220M0808	35	1500	0.10	83	8 \times 8
	33	RPT1E330M0812	28	1600	0.10	124	8 \times 12
	47	RPT1E470M0812	28	1600	0.10	176	8 \times 12
	56	RPT1E560M0812	28	2300	0.10	210	8 \times 12
	82	RPT1E820M0812	28	2300	0.10	308	8 \times 12
	120	RPT1E121M0808	35	2000	0.10	450	8 \times 8
	150	RPT1E151M0812	28	2400	0.10	563	8 \times 12
	270	RPT1E271M1012	25	2800	0.10	1013	10 \times 12
330	RPT1E331M1012	25	2800	0.10	1237	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