

RPT Series 引线式导电聚合物固体铝电解电容器大容量品

Large capacity . Conductive Polymer . Radial Lead Type

- 大容量 Large capacity
- 105℃、2000 小时 105℃、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

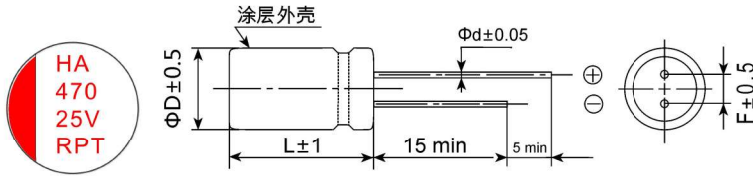


主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics								
使用温度范围 Operating Temperature Range	-55~+105℃								
额定电压范围 Rated Voltage Range	2.5~25V. DC								
标称容量允许偏差 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℃, 2000hrs)	<p>在 105℃ 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 +105℃, capacitors meet the characteristics requirements listed .</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ADD8E6;">电容量变化率 Capacitance Change</td> <td style="background-color: #90EE90;">初始值的±20%以内 Within ±20% of the initial value</td> </tr> <tr> <td style="background-color: #ADD8E6;">漏电流值 Leakage</td> <td style="background-color: #90EE90;">≤规范值 Less than the specified value</td> </tr> <tr> <td style="background-color: #ADD8E6;">损耗角正切值 Dissipation Factor</td> <td style="background-color: #90EE90;">≤规范值的 150% Less than 150% of the specified value</td> </tr> <tr> <td style="background-color: #ADD8E6;">等效串联电阻 Equivalent Series Resistance</td> <td style="background-color: #90EE90;">≤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
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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" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ADD8E6;">电容量变化率 Capacitance Change</td> <td style="background-color: #90EE90;">初始值的±20%以内 Within ±20% of the initial value</td> </tr> <tr> <td style="background-color: #ADD8E6;">漏电流值 Leakage</td> <td style="background-color: #90EE90;">≤规范值 Less than the specified value</td> </tr> <tr> <td style="background-color: #ADD8E6;">损耗角正切值 Dissipation Factor</td> <td style="background-color: #90EE90;">≤规范值的 150% Less than 150% of the specified value</td> </tr> <tr> <td style="background-color: #ADD8E6;">等效串联电阻 Equivalent Series Resistance</td> <td style="background-color: #90EE90;">≤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
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外形图及尺寸 Case size table



mm

$\Phi D \times L$	ΦD	L	F	Φd
8×8	8	8	3.5	0.6
8×12	8	12	3.5	0.6
8×16	8	16	3.5	0.6
8×20	8	20	3.5	0.6
10×10	10	10	5.0	0.6
10×12	10	12	5.0	0.6
10×16	10	16	5.0	0.6
10×20	10	20	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/ 105 $^{\circ}C$, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max)(μA)	尺寸 $\Phi D \times L$ (mm)
2.5	1000	RPT0E102M0808	8	6520	0.10	500	8×8
	1800	RPT0E182M0808	9	6000	0.10	900	8×8
	2200	RPT0E222M0812	8	6700	0.10	1100	8×12
	2700	RPT0E222M1010	8	7000	0.10	1350	10×10
	3900	RPT0E392M1012	8	7000	0.10	1950	10×12
	4700	RPT0E472M1012	8	7000	0.10	2350	10×12
4	820	RPT0G821M0808	8	5080	0.10	656	8×8
	1000	RPT0G102M0808	9	5900	0.10	800	8×8
	1200	RPT0G122M0808	9	5900	0.10	960	8×8
	1800	RPT0G182M0812	9	6500	0.10	1440	8×12
	1500	RPT0G152M1012	8	6900	0.10	1200	10×12
	2700	RPT0G222M1012	8	6900	0.10	2160	10×12
	3300	RPT0G332M1012	8	6900	0.10	2640	10×12
	820	RPT0J821M0808	9	6100	0.10	1033	8×8
6.3	1000	RPT0J102M0808	9	6100	0.10	1260	8×8
	1200	RPT0J102M0812	9	6100	0.10	1512	8×12
	1000	RPT0J102M1012	8	6600	0.10	1260	10×12
	1500	RPT0J152M1010	9	6100	0.10	1890	10×10
	1500	RPT0J152M1012	9	6640	0.10	1890	10×12
	1800	RPT0J182M1012	8	6600	0.10	2268	10×12
	2200	RPT0J222M1012	8	6600	0.10	2772	10×12
	470	RPT1A471M0808	11	5080	0.10	940	8×8
10	560	RPT1A561M0808	11	5100	0.10	1120	8×8
	680	RPT1A681M0808	12	6100	0.10	1360	8×12
	820	RPT1A821M0812	12	6100	0.10	1640	8×12
	1000	RPT1A102M0812	12	6100	0.10	2000	8×12
	1200	RPT1A122M0812	12	6100	0.10	2400	8×12
	1200	RPT1A122M1012	9	6200	0.10	2400	10×12
	1500	RPT1A152M1012	14	5100	0.10	3000	10×12

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16	220	RPT1C221M0808	16	3500	0.10	704	8 \times 8
	270	RPT1C271M0808	16	3500	0.10	864	8 \times 8
	330	RPT1C331M0808	13	4700	0.10	1056	8 \times 8
	330	RPT1C331M0812	15	4520	0.10	1056	8 \times 12
	470	RPT1C471M0812	11	5400	0.10	1504	8 \times 12
	470	RPT1C471M1010	10	4350	0.10	1504	10 \times 10
	560	RPT1C561M0812	14	4950	0.10	1792	8 \times 12
	680	RPT1C681M1012	14	5100	0.10	2176	10 \times 12
	820	RPT1C821M1012	11	5600	0.10	2624	10 \times 12
	1000	RPT1C102M0816	10	6100	0.10	3200	8 \times 16
	1000	RPT1C102M1012	12	5400	0.10	3200	10 \times 12
	1200	RPT1C122M1012	10	6100	0.10	3840	10 \times 12
	1500	RPT1C152M0816	10	6100	0.10	4800	8 \times 16
2200	RPT1C222M1020	8	8100	0.10	7040	10 \times 20	
20	180	RPT1D181M0808	23	3900	0.10	720	8 \times 8
	220	RPT1D221M0812	23	3900	0.10	880	8 \times 8
	220	RPT1D221M1012	20	4500	0.10	880	8 \times 8
	270	RPT1D271M1012	18	4500	0.10	1080	8 \times 8
	330	RPT1D331M1012	18	4500	0.10	1320	8 \times 10
	390	RPT1D391M0812	14	4970	0.10	1560	8 \times 12
	470	RPT1D471M0812	14	4970	0.10	1880	8 \times 12
	680	RPT1D681M0816	14	5650	0.10	2720	8 \times 16
	680	RPT1D681M1012	14	5650	0.10	2720	10 \times 12
25	150	RPT1E151M0808	20	3500	0.10	750	8 \times 8
	220	RPT1E221M0808	20	3500	0.10	1100	8 \times 8
	270	RPT1E271M0810	18	3800	0.10	1350	8 \times 10
	330	RPT1E331M0812	16	4650	0.10	1650	8 \times 12
	470	RPT1E471M1012	17	4650	0.10	2350	10 \times 12
	560	RPT1E561M0816	14	5000	0.10	2800	8 \times 16
	560	RPT1E561M1012	14	5100	0.10	2800	10 \times 12
	680	RPT1E681M0816	14	5000	0.10	3400	8 \times 16
	680	RPT1E681M1012	14	5100	0.10	3400	10 \times 12
	820	RPT1E821M0820	13	5100	0.10	4100	8 \times 20
	1000	RPT1E102M1016	13	5200	0.10	5000	10 \times 16
	1500	RPT1E152M1020	13	5300	0.10	7500	10 \times 20

■ 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