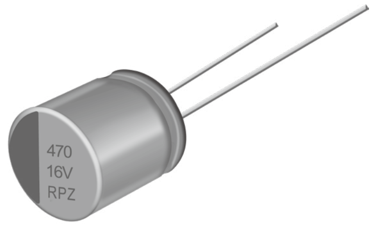
RPZ Series 引线式导电聚合物固体铝电解电容器极低 ESR 品

Extra Low ESR . Conductive Polymer . Radial Lead Type

- 105ºC、2000 小时 — 105ºC、2000 hours
- 性能稳定，可靠性高 — High stability and reliability
- 极低 ESR、耐大纹 波电流 — Extra Low ESR 、High ripple current capability

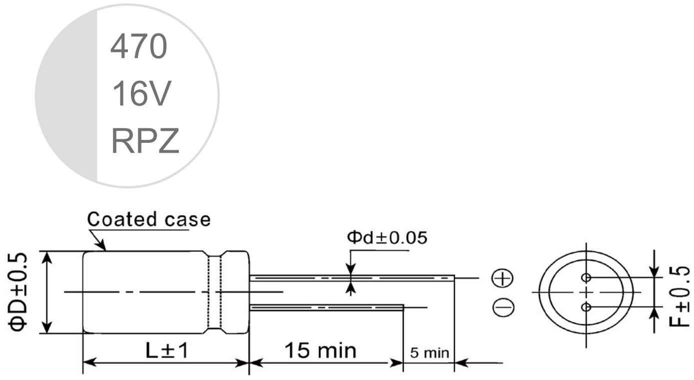


◆主要技术性能 Specifications

<table>
<tr><th>项目
Items</th><th colspan="2">主要特性
Performance Characteristics</th></tr>
<tr><td>使用温度范围
Operating Temperature Range</td><td colspan="2">-55ºC+105ºC</td></tr>
<tr><td>额定电压范围
Rated Voltage Range</td><td colspan="2">2.5 ~ 25V. DC</td></tr>
<tr><td>标称电容量允许偏差
Capacitance Tolerance</td><td colspan="2">±20% (120Hz, 20ºC)</td></tr>
<tr><td>漏电流 (20℃)
Leakage Current</td><td colspan="2">施加额定工作电压 2 分钟，$I \le 0.2 C_R U_R$ (μA)
After 2 minutes application of rated voltage, the leakage current is not more than $0.2 C_R U_R$</td></tr>
<tr><td>损耗角正切值 (120Hz 20℃)
Dissipation Factor</td><td colspan="2">测试频率 120Hz/ 温度 20℃，损耗小于规范值
Less than the specified value at 120Hz, 20ºC</td></tr>
<tr><td>等效串联电阻
Equivalent Series Resistance</td><td colspan="2">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, 20ºC</td></tr>
<tr><td rowspan="5">耐久性
Load Life(105ºC, 2000hrs)</td><td colspan="2">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 +105ºC, capacitors meet the characteristics requirements listed .</td></tr>
<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>
<tr><td rowspan="5">耐湿温特性
Damp heat(Steady state)
(60ºC,90~95%RH,1000hrs)</td><td colspan="2">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。
60ºC, 90 to 95%RH,1000h,No applied voltage capacitors meet the characteristics requirements listed .</td></tr>
<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>

◆外形图及尺寸 Case size table

mm



φD×L	φD	L	F	φd
5×6	5	6	2.0	0.5
5×7	5	7	2.0	0.5
5×8	5	8	2.0	0.5
6.3×5	6.3	5	2.5	0.5
6.3×8	6.3	8	2.5	0.5/0.6
6.3×9	6.3	9	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

◆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/ 105ºC, 100Khz)	损耗 Tanδ (120Hz)	漏电流 (max)(μA)	尺寸 ΦD×L (mm)
2.5	220	RPZ0E221M0506	25	3500	0.12	110	5×6
	330	RPZ0E331M0507	12	4310	0.12	165	5×7
	390	RPZ0E391M0507	12	4310	0.12	195	5×7
	470	RPZ0E471M0508	10	4610	0.12	235	5×8
	560	RPZ0E561M0508	10	4610	0.12	280	5×8
	560	RPZ0E561M0608	7	5000	0.12	280	6.3×8
	680	RPZ0E681M0608	7	5000	0.12	340	6.3×8
	820	RPZ0E821M0608	7	5000	0.12	410	6.3×8
	820	RPZ0E821M0808	7	6100	0.12	410	8×8
	1000	RPZ0E102M0808	7	6100	0.12	500	8×8
	1500	RPZ0E152M0812	7	6100	0.12	750	8×12
	1500	RPZ0E152M1012	7	6640	0.12	750	10×12
	2200	RPZ0E222M1012	7	6640	0.12	1100	10×12
	3300	RPZ0E332M1012	7	5230	0.12	1650	10×12
4	100	PPZ0G101M0506	25	1970	0.12	80	5×6
	220	PPZ0G221M0507	12	2610	0.12	176	5×7
	270	PPZ0G271M0507	12	2610	0.12	216	5×7
	330	PPZ0G331M0508	10	2610	0.12	264	5×8
	470	PPZ0G471M0608	9	2610	0.12	376	6.3×8
	560	RPZ0G561M0808	7	6100	0.12	448	8×8
	680	RPZ0G681M0808	7	6080	0.12	544	8×8
	820	RPZ0G821M0808	7	6080	0.12	656	8×8
	1000	RPZ0G102M0808	7	6080	0.12	800	8×8
	1200	RPZ0G122M0808	7	6100	0.12	960	8×8
	1500	RPZ0G152M0812	7	6240	0.12	1200	8×12
	2200	RPZ0G222M1012	7	6440	0.12	1760	10×12
	3300	RPZ0G332M1012	7	6440	0.12	2640	10×12
6.3	100	RPZ0J101M0605	15	2390	0.12	126	6.3×5
	150	RPZ0J151M0605	15	2690	0.12	189	6.3×5
	220	RPZ0J221M0507	12	2690	0.12	277	5×7
	270	RPZ0J271M0507	12	2690	0.12	340	5×7
	270	RPZ0J271M0608	9	2990	0.12	340	6.3×8
	330	RPZ0J331M0508	10	2690	0.12	416	5×8
	330	RPZ0J331M0608	9	2990	0.12	416	6.3×8
	390	RPZ0J391M0508	10	2690	0.12	491	5×8
	470	RPZ0J471M0608	8	4700	0.12	592	6.3×8
	470	RPZ0J471M0808	8	5700	0.12	592	8×8
	560	RPZ0J561M0608	8	4700	0.12	706	6.3×8
	560	RPZ0J561M0808	8	5700	0.12	706	8×8
	680	RPZ0J681M0808	9	4080	0.12	857	8×8

◆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°C, 100Khz)	损耗 Tanδ (120Hz)	漏电流 (max)(μA)	尺寸 ΦD×L (mm)
6.3	820	RPZ0J821M0608	8	4700	0.12	1033	6.3×8
	820	RPZ0J821M0808	8	5700	0.12	1033	8×8
	1000	RPZ0J102M0808	9	4080	0.12	1260	8×8
	1500	RPZ0J152M0812	8	4520	0.12	1890	8×12
	1500	RPZ0J152M1012	7	6640	0.12	1890	10×12
	2200	RPZ0J222M1012	7	5440	0.12	2772	10×12
10	150	RPZ1A151M0507	13	2690	0.12	300	5×7
	220	RPZ1A221M0507	13	2690	0.12	440	5×7
	220	RPZ1A221M0605	15	2200	0.12	440	6.3×5
	270	RPZ1A271M0608	12	2690	0.12	540	6.3×8
	330	RPZ1A331M0608	12	2690	0.12	660	6.3×8
	330	RPZ1A331M0808	9	4080	0.12	660	8×8
	470	RPZ1A471M0808	9	4080	0.12	940	8×8
	470	RPZ1A471M0812	8	4080	0.12	940	8×12
	560	RPZ1A561M0812	8	4080	0.12	1120	8×12
	680	RPZ1A681M0812	8	4520	0.12	1360	8×12
	820	RPZ1A821M0812	8	4520	0.12	1640	8×12
	1000	RPZ1A102M0812	8	4520	0.12	2000	8×12
	1000	RPZ1A102M1012	7	5100	0.12	2000	10×12
	1500	RPZ1A152M1012	7	5100	0.12	3000	10×12
16	33	RPZ1C330M0508	15	2200	0.12	106	5×8
	47	RPZ1C470M0508	15	2200	0.12	150	5×8
	68	RPZ1C680M0508	15	2200	0.12	218	5×8
	68	RPZ1C680M0608	14	2690	0.12	218	6.3×8
	82	RPZ1C820M0608	13	2690	0.12	263	6.3×8
	100	RPZ1C101M0508	13	2200	0.12	320	5×8
	100	RPZ1C101M0608	12	2690	0.12	320	6.3×8
	150	RPZ1C151M0608	12	2690	0.12	480	6.3×8
	220	RPZ1C221M0608	12	2690	0.12	704	6.3×8
	220	RPZ1C221M0808	10	5000	0.12	704	8×8
	270	RPZ1C271M0808	10	5000	0.12	864	8×8
	330	RPZ1C331M0808	10	5000	0.12	1056	8×8
	470	RPZ1C471M0812	10	5230	0.12	1504	8×12
	470	RPZ1C471M1012	10	6100	0.12	1504	10×12
	560	RPZ1C561M1012	10	6100	0.12	1792	10×12
	680	RPZ1C681M1012	10	6100	0.12	2176	10×12
	820	RPZ1C821M1012	10	6100	0.12	2624	10×12
25	47	RPZ1E470M0605	40	1050	0.12	235	6.3×5
	68	RPZ1E680M0608	30	1600	0.12	340	6.3×8
	100	RPZ1E101M0808	22	1800	0.12	500	8×8
	220	RPZ1E221M0808	22	4000	0.12	1100	8×8
	270	RPZ1E271M0812	14	4000	0.12	1350	8×12
	330	RPZ1E331M0812	16	3000	0.12	1650	8×12
	330	RPZ1E331M1012	14	4000	0.12	1650	10×12
	470	RPZ1E471M1012	14	4000	0.12	2350	10×12

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

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

◆纹波电流温度补偿系数 Temperature coefficient of allowable ripple current

温度℃ Temp.	+40	+55	+70	+85	+105
系数 Coefficient	2.5	2.1	1.8	1.5	1.00