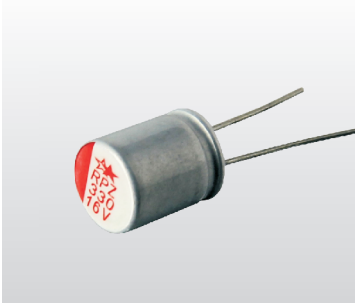
HEADCON

鋁電解電容器
Aluminum Electrolytic Capacitor

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 Aluminum
Solid Electrolytic Capacitors of Radial Lead Type



■ 特性 Features

- 105℃，2000 小时　105℃, 2000 hours assured
- 高频状态下的 ESR 约为 RPT 的 50%
  About 50% ESR less than RPT series at high frequency range
- 高纹波　High ripple current capability

NEW

■ 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 ~ 16V.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≤0.15CV (μA) After 2 minutes, application of rated voltage, the leakage current is not more than 0.15CV (μA)
损耗角正切值(120Hz 20℃) Dissipation Factor	测试频率 120Hz/20℃,损耗小于规范值 Less than the specified value at 120Hz, 20℃
等效串联电阻 ESR Equivalent Series Resistance	测试频率 100KHz/温度 20℃，等效串联电阻 ESR 小于规范值 Less than the specified value at 100KHz, 20℃
纹波电流 Ripple Current	小于规范值 Less than the specified value
耐久性 Load Life(105℃,2000hrs)	+105℃施加额定电压 2000 小时,电容器应满足要求 After applying rated voltage for 2000 hours at +105℃, capacitors meet the characteristics requirements listed at right.
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,电容器的特性符合右表要求 60℃，90 to 95%RH,1000hours, No applied voltage capacitors meet the characteristics requirements listed at right.

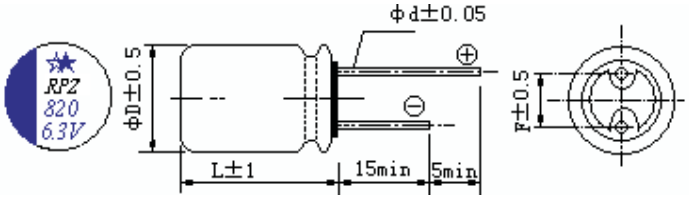
耐久性 Load Life(105℃,2000hrs)

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
ESR 阻抗 Impedance	≤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)

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、阻抗 ESR、Impedance	≤规范值的 150% Less than 150% of the specified value

■ 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

RPZ Series

■ 编码和规格 Part Number & Specifications

工作电压(V) Rated Voltage	标称容量 Capacitance (μF)	产品编码 Part Number	等效串联电阻 ESR 100KHz to 300KHz (mΩ max)	耐纹波电流 100KHz (mA rms)at 105℃	损耗角正切值(max) Tan δ	漏电流 (max) (μA)	尺寸 ΦD×L (mm)
2.5	680	RPZ0E681M0808	8	5500	0.08	255	8×8
	820	RPZ0E821M0808 RPZ0E821M0812	8 7	5500 5600	0.08 0.08	307	8×8 8×12
	1000	RPZ0E102M0812	7	5600	0.08	375	8×12
	1500	RPZ0E152M1012	7	6100	0.08	562	10×12
4	560	RPZ0G561M0808	8	5500	0.08	336	8×8
	680	RPZ0G681M0808	8	5500	0.08	408	8×8
	820	RPZ0G821M0808 RPZ0G821M0812	8 7	5500 5600	0.08 0.08	492	8×8 8×12
	1000	RPZ0G102M1012	7	6100	0.08	600	10×12
	1200	RPZ0G122M1012	7	6100	0.08	720	10×12
6.3	330	RPZ0J331M0808	10	5000	0.08	312	8×8
	390	RPZ0J391M0808	8	5600	0.08	369	8×8
	470	RPZ0J471M0808 RPZ0J471M0812	8 7	5500 5600	0.08 0.08	444	8×8 8×12
	560	RPZ0J561M0808 RPZ0J561M0812	8 7	5500 5700	0.08 0.08	529	8×8 8×12.5
	680	RPZ0J681M0808 RPZ0J681M0812	8 7	5700 5700	0.08 0.08	642	8×8 8×12
	820	RPZ0J821M1012	7	6100	0.08	774	10×12
	1000	RPZ0J102M1012	7	6100	0.08	945	10×12
10	220	RPZ1A221M0808	11	4000	0.08	330	8×8
	270	RPZ1A271M0808	10	4500	0.08	405	8×8
	330	RPZ1A331M0812	7	5600	0.08	495	8×12
	470	RPZ1A471M1012	7	6100	0.08	702	10×12
	560	RPZ1A561M1012	7	6100	0.08	840	10×12
	820	RPZ1A821M1012	7	6100	0.08	1230	10×12
16	180 180	RPZ1C181M0808 RPZ1C181M0812	12 8	4200 5600	0.08 0.08	432	8×8 8×12
	270	RPZ1C181M0812	8	5600	0.08	648	8×12
	330	RPZ1C331M1012	8	6100	0.08	792	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