

VPQ Series 片式固态长寿命铝电解电容器

Long Life Conductive Polymer Aluminum Solid Electrolytic Capacitor Of SMD Type

- 体积小，容量大，105°C 10000 hours
- 性能稳定，可靠性高，高纹波电流
- Small size,Large capacity ,105°C 10000 hours
- High stability and reliability with high ripple current

NEW

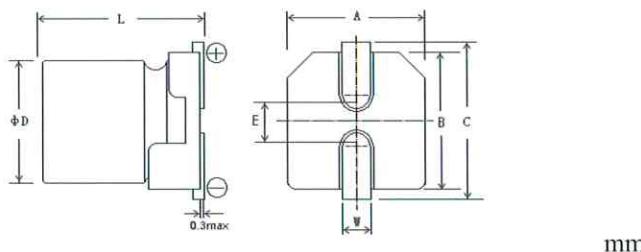


■ 主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics									
使用温度范围 Operating Temperature Range	-55~+105°C									
额定电压范围 Rated Voltage Range	4-25V. 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≤0.2 CV(μA) After 2 minutes' application of rated voltage, the leakage current is not more than 0.2 CV									
损耗角正切值(120Hz 20°C) Dissipation Factor	测试频率 120Hz/温度 20°C, 损耗小于规范值 Less than the specified value at 120Hz, 20°C									
等效串联电阻 Equivalent Series Resistance	测试频率 100KHz/温度 20°C, 等效串联电阻小于规范值 Less than the specified value at 100KHz, 20°C									
耐久性 Load Life(105°C, 10000hrs)	在 105°C 环境施加额定工作电压 10000 小时后, 电容器的特性符合下表要求。 105 °C environment d rated operating voltage10,000 hours, capacitor characteristics meet the requirements in the following table.									
<table border="1"> <tr> <td>电容量变化率 Capacitance Change</td><td>初始值的±25%以内 Within ±25% 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 200% Less than 200% of the specified value</td></tr> <tr> <td>等效串联电阻 Equivalent Series Resistance</td><td>≤规范值的 200% Less than 200% of the specified value</td></tr> </table>			电容量变化率 Capacitance Change	初始值的±25%以内 Within ±25% 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 200% Less than 200% of the specified value	等效串联电阻 Equivalent Series Resistance	≤规范值的 200% Less than 200% of the specified value
电容量变化率 Capacitance Change	初始值的±25%以内 Within ±25% 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 200% Less than 200% of the specified value									
等效串联电阻 Equivalent Series Resistance	≤规范值的 200% Less than 200% of the specified value									
高温贮存 Shelf Life (105°C,1000hrs)	在 105°C 环境放置 1000 小时后, 电容器的特性符合下表要求。 After storage 1000 hours' at +105°C and then resumed 16 hours, the characteristics requirements listed .									
<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									

VPQ Series

■ 外形图及尺寸 Case size table



$\phi D \times L$	$\Phi 5 \times 6.0$	$\Phi 6.3 \times 6.0$	$\Phi 6.3 \times 8.0$	$\Phi 8 \times 9.0$
$A \pm 0.2$	5.3	6.6	6.6	8.3
$B \pm 0.2$	5.3	6.6	6.6	8.3
$C \pm 0.3$	6.1	7.4	7.4	9.1
E	1.3	2.2	2.2	3.1
$L \pm 0.5$	6.0	6.0	8.0	9.0
W	$0.5 \sim 0.9$			$0.8 \sim 1.1$

■ 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($m\Omega$ max) 100Khz to 300Khz	耐纹波电流 (mA rms/ 105°C, 100Khz)	损耗 $\tan\delta$ (120Hz)	漏电流 (max) (μA)	尺寸 $\phi D \times L$ (mm)
4	150	VPQ0G151M0506	25	2150	0.12	120	5×6.0
	560	VPQ0G561M0809	22	3220	0.12	448	8×9.0
6.3	47	VPQ0J470M0506	30	1970	0.12	59	5×6.0
	100	VPQ0J101M0606	25	2150	0.12	126	6.3×6.0
	120	VPQ0J121M0606	22	2570	0.12	151	6.3×6.0
	220	VPQ0J221M0608	22	2570	0.12	277	6.3×8.0
	390	VPQ0J391M0809	22	3220	0.12	491	8×9.0
10	33	VPQ1A330M0506	70	1100	0.12	66	5×6.0
	68	VPQ1A680M0606	30	1970	0.12	136	6.3×6.0
	120	VPQ1A121M0608	27	2320	0.12	240	6.3×8.0
	150	VPQ1A151M0809	30	2760	0.12	300	8×9.0
16	22	VPQ1C220M0506	90	1060	0.12	70	5×6.0
	39	VPQ1C390M0606	35	1820	0.12	125	6.3×6.0
	68	VPQ1C680M0608	30	2200	0.12	218	6.3×8.0
	82	VPQ1C820M0809	30	2760	0.12	262	8×9.0
	120	VPQ1C121M0809	27	2900	0.12	384	8×9.0
25	22	VPQ1E220M0606	110	1060	0.12	110	6.3×6.0
	33	VPQ1E330M0606	110	1060	0.12	165	6.3×6.0
	47	VPQ1E470M0608	100	1220	0.12	235	6.3×8.0
	100	VPQ1E101M0809	100	1220	0.12	500	8×9.0

■ 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