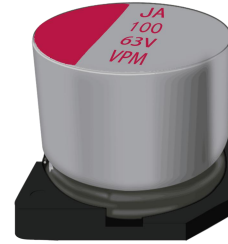


VPM Series 片式导电聚合物固体铝电解电容器耐 135℃ 4000 小时产品 Conductive Polymer .135℃ 4000 hours . For SMD Type

- 耐高电压 High voltage(to250V)
- 高频低阻抗 Low ESR at high frequency range
- 高纹波 High ripple current capability
- 135℃,4000 小时 135℃,4000 hours assured
- 符合 AEC-Q200 AEC-Q200 Compliant

NEW



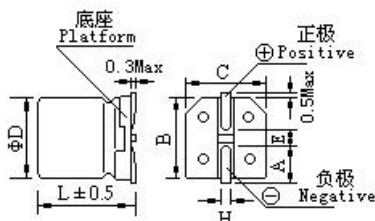
■ 主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics								
使用温度范围 Operating Temperature Range	-55~+135℃								
额定电压范围 Rated Voltage Range	16~80V. 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≤0.2 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℃) 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(135℃,4000hrs)	<p>在 135℃环境施加额定工作电压 4000 小时后,电容器的特性符合下表要求。 105℃ environment d rated operating voltage2,000 hours, capacitor characteristics meet the requirements in the following table.</p> <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 200% Less than 200% 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 200% Less than 200% of the specified value
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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 (135℃, 1000hrs)	<p>在 135℃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℃ and then resumed 16 hours, the characteristics requirements listed .</p> <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 200% Less than 200% 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 200% Less than 200% of the specified value
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VPM Series

■ 外形图及尺寸 Case size table

mm



ΦD	L	A	B	C	H	E±0.2
6.3	6.0	2.4	6.6	6.6	0.5~0.8	2.2
6.3	7.7	2.4	6.6	6.6	0.5~0.8	2.2
8	9.0	2.9	8.3	8.3	0.8~1.1	3.1
8	10.2	2.9	8.3	8.3	0.8~1.1	3.1
8	12.0	2.9	8.3	8.3	0.8~1.1	3.1
10	10.2	3.2	10.3	10.3	0.8~1.1	4.5
10	12.5	3.2	10.3	10.3	0.8~1.1	4.5

■ 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 Tan δ (120Hz)	漏电流 (max) (μA)	尺寸 ΦD×L (mm)
16	120	VPM1C121M0606	36	900	0.12	384	6.3×6
	220	VPM1C221M0607	23	1500	0.12	704	6.3×7.7
	220	VPM1C221M0808	30	1100	0.12	704	8×9
	470	VPM1C471M0810	17	2400	0.12	1504	8×10.2
	470	VPM1C471M1010	22	1900	0.12	1504	10×10.2
	560	VPM1C561M0812	16	2700	0.12	1792	8×12
	680	VPM1C681M1010	19	2300	0.12	2716	10×10.2
20	1000	VPM1C102M1012	13	2500	0.12	3200	10×12.5
	100	VPM1D101M0606	41	900	0.12	400	6.3×6
	150	VPM1D151M0607	25	1200	0.12	750	6.3×7.7
	150	VPM1D151M0808	39	800	0.12	750	8×9
	330	VPM1D331M0810	19	2300	0.12	1320	8×10.2
	330	VPM1D331M1010	23	1800	0.12	1320	10×10.2
	470	VPM1D471M0812	18	2500	0.12	1880	8×12
	560	VPM1D561M1010	20	2200	0.12	2240	10×10.2
25	680	VPM1D681M1012	14	3000	0.12	2720	10×12.5
	56	VPM1E560M0606	43	900	0.12	280	6.3×6
	100	VPM1E101M0607	27	1100	0.12	500	6.3×7.7
	100	VPM1E101M0808	41	800	0.12	500	8×9
	220	VPM1E221M0810	20	2300	0.12	1100	8×10.2
	220	VPM1E221M1010	24	1800	0.12	1100	10×10.2
	270	VPM1E271M0812	19	2300	0.12	1350	8×12
	330	VPM1E331M1010	20	2200	0.12	1650	10×10.2
35	470	VPM1E471M1012	15	2900	0.12	2350	10×12.5
	47	VPM1V470M0605	48	800	0.12	329	6.3×6
	68	VPM1V680M0607	31	1100	0.12	476	6.3×7.7
	68	VPM1V680M0808	44	800	0.12	476	8×9
	150	VPM1V151M0810	22	2200	0.12	1050	8×10.2
	150	VPM1V151M1010	25	1800	0.12	1050	10×10.2
	220	VPM1V221M0812	21	2300	0.12	1540	8×12
35	270	VPM1V271M1010	20	2200	0.12	2310	10×10.2
	330	VPM1V331M1012	16	2800	0.12	3290	10×12.5



鋁電解電容器

Aluminum Electrolytic Capacitor

VPM Series

■ 编码和规格 Part number & Specifications

额定电压 Rated Voltage (V)	标称容量 Capacitance (μ F)	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) (μ A)	尺寸 Φ D \times L (mm)
50	22	VPM1H220M0606	50	700	0.12	220	6.3 \times 6
	39	VPM1H390M0607	36	900	0.12	390	6.3 \times 7.7
	39	VPM1H390M0808	45	900	0.12	390	8 \times 9
	82	VPM1H820M0810	26	2100	0.12	820	8 \times 10.2
	82	VPM1H820M1010	34	1600	0.12	820	10 \times 10.2
	120	VPM1H121M0812	25	2100	0.12	1200	8 \times 12
	120	VPM1H121M1010	25	2100	0.12	1200	10 \times 10.2
63	180	VPM1H181M1012	19	2500	0.12	1800	10 \times 12.5
	12	VPM1J120M0606	51	700	0.12	151	6.3 \times 6
	22	VPM1J220M0607	45	800	0.12	277	6.3 \times 7.7
	22	VPM1J220M0808	48	800	0.12	277	8 \times 9
	39	VPM1J390M0810	28	1900	0.12	491	8 \times 10.2
	47	VPM1J470M1010	35	1500	0.12	592	10 \times 10.2
	56	VPM1J560M0812	27	2100	0.12	705	8 \times 12
	68	VPM1J680M1010	28	2000	0.12	857	10 \times 10.2
80	100	VPM1J101M1012	24	2100	0.12	1260	10 \times 12.5
	12	VPM1K120M0607	50	800	0.12	192	6.3 \times 7.7
	27	VPM1K270M0810	38	1000	0.12	432	8 \times 10.2
	39	VPM1K390M0812	35	1100	0.12	624	8 \times 12
	47	VPM1K470M1010	33	1200	0.12	752	10 \times 10.2
	68	VPM1K680M1012	28	1500	0.12	1088	10 \times 12.5

■ 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