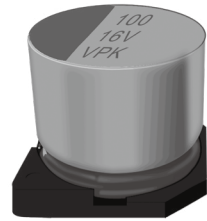


VPK Series 片式导电聚合物固体铝电解电容耐高温品

Higher Temperature . Conductive Polymer . For SMD Type

- 高品低阻抗 Low ESR at high frequency range
- 高纹波 High ripple current capability
- 125°C、5000 小时 125°C、5000 hours assured
- 符合 AEC-Q200 AEC-Q200 Compliant

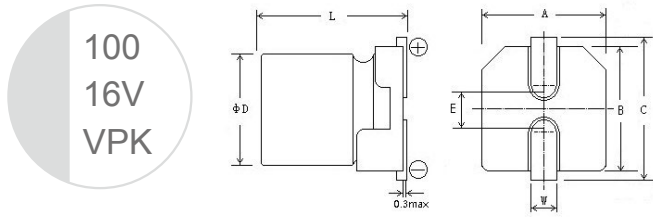


◆主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics	
使用温度范围 Operating Temperature Range	-55°C+125°C	
额定电压范围 Rated Voltage Range	2.5 ~ 80V. 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, $I \leq 0.2 C_R U_R$ (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°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(125°C, 5000hrs)	在 125°C 环境施加额定工作电压 5000 小时后, 电容器的特性符合下表要求。 After 5000 hours' application of rated voltage at +125°C, capacitors meet the characteristics requirements listed .	
	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
高温储存 Shelf Life (125°C, 1000hrs)	在温度为 60°C、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°C, 90 to 95%RH, 1000h, No applied voltage capacitors meet the characteristics requirements listed .	
	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

◆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	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/ 125°C, 100Khz)	损耗 Tanδ (120Hz)	漏电流 (max)(μA)	尺寸 ΦD×L (mm)
4	560	VPK0G561M0809	18	4080	0.10	448	8×9
	680	VPK0G681M0809	18	4080	0.10	544	8×9
	820	VPK0G821M0809	18	4080	0.10	656	8×9
	1000	VPK0G102M0812	16	4520	0.10	800	8×12
	1500	VPK0G152M0812	16	4520	0.10	1200	8×12
	1500	VPK0G152M1012	14	5440	0.10	1200	10×12.5
	2200	VPK0G222M1012	14	5440	0.10	1760	10×12.5
	2700	VPK0G272M1012	14	5440	0.10	2160	10×12.5
6.3	470	VPK0J471M0809	18	4080	0.10	592	8×9
	560	VPK0J561M0809	18	4080	0.10	706	8×9
	680	VPK0J681M0809	18	4080	0.10	857	8×9
	820	VPK0J821M0812	16	4520	0.10	1033	8×12
	820	VPK0J821M1012	14	5100	0.10	1033	10×12.5
	1000	VPK0J102M1012	14	4520	0.10	1260	10×12.5
	1200	VPK0J122M1012	14	5440	0.10	1512	10×12.5
	1500	VPK0J152M1012	14	5440	0.10	1890	10×12.5
10	220	VPK1A221M0809	18	4080	0.10	440	8×9
	270	VPK1A271M0809	18	4080	0.10	540	8×9
	330	VPK1A331M0809	18	4080	0.10	660	8×9
	330	VPK1A331M0812	16	4080	0.10	660	8×12
	470	VPK1A471M0812	16	4080	0.10	940	8×12
	560	VPK1A561M0812	16	4080	0.10	1120	8×12
	680	VPK1A681M0812	16	4520	0.10	1360	8×12
	820	VPK1A821M0812	16	4520	0.10	1640	8×12
	1000	VPK1A102M0812	16	4520	0.10	2000	8×12
	1000	VPK1A102M1012	14	5100	0.10	2000	10×12.5
	1500	VPK1A152M1012	14	5100	0.10	3000	10×12.5
	16	100	VPK1C101M0606	24	2690	0.10	320
120		VPK1C121M0606	24	2690	0.10	348	6.3×6
150		VPK1C151M0606	24	2690	0.10	480	6.3×6
220		VPK1C221M0607	24	2690	0.10	704	6.3×7.7
220		VPK1C221M0809	18	3500	0.10	704	8×9
270		VPK1C271M0809	18	3500	0.10	864	8×9
270		VPK1C271M0812	16	2700	0.10	864	8×12
330		VPK1C331M0812	16	2700	0.10	1056	8×12
330		VPK1C331M1012	14	4720	0.10	1056	10×12.5
470		VPK1C471M0810	17	2400	0.10	1504	8×10.2
560		VPK1C561M0812	16	2700	0.10	1792	8×12

◆ 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/ 125°C, 100Khz)	损耗 Tan δ (120Hz)	漏电流 (max)(μ A)	尺寸 Φ D×L (mm)
16	680	VPK1C681M1010	19	2300	0.10	2176	10×10.2
	820	VPK1C821M1012	14	2800	0.10	2624	10×12.5
	1000	VPK1C102M1012	13	2800	0.10	3200	10×12.5
20	100	VPK1D101M0606	41	1200	0.10	500	6.3×6
	150	VPK1D151M0607	25	1700	0.10	750	6.3×7.7
	150	VPK1D151M0809	39	1700	0.10	750	8×9
	330	VPK1D331M0810	19	2400	0.10	1650	8×10.2
	470	VPK1D471M0812	18	2800	0.10	2350	8×12
	560	VPK1D561M1010	16	3200	0.10	1650	10×10.2
	680	VPK1D681M1012	14	3500	0.10	2350	10×12.5
25	47	VPK1E470M0606	43	1200	0.10	235	6.3×6
	56	VPK1E560M0606	43	1200	0.10	280	6.3×6
	100	VPK1E101M0607	27	1700	0.10	500	6.3×7.7
	100	VPK1E101M0809	41	1700	0.10	500	8×9
	220	VPK1E221M0810	20	2400	0.10	1100	8×10.2
	270	VPK1E271M0812	19	2800	0.10	1350	8×12
	330	VPK1E331M1010	20	2500	0.10	1650	10×10.2
	470	VPK1E471M1012	15	3500	0.10	2350	10×12.5
35	47	VPK1V470M0606	48	1200	0.10	329	6.3×6
	68	VPK1V680M0607	31	1700	0.10	476	6.3×7.7
	68	VPK1V680M0809	44	1700	0.10	476	8×9
	150	VPK1V151M0810	22	2400	0.10	1050	8×10.2
	220	VPK1V221M0812	21	2800	0.10	1540	8×12
	270	VPK1V271M1010	20	2500	0.10	1890	10×10.2
	330	VPK1V331M1012	16	3500	0.10	2310	10×12.5
	50	22	VPK1H220M0606	50	1000	0.10	220
39		VPK1H390M0607	36	1200	0.10	390	6.3×7.7
39		VPK1H390M0809	45	1600	0.10	390	8×9
82		VPK1H820M0810	26	2100	0.10	820	8×10.2
120		VPK1H121M0812	25	2500	0.10	1200	8×12
120		VPK1H121M1010	25	2500	0.10	1200	10×10.2
180		VPK1H181M1012	19	3200	0.10	1800	10×12.5
63		12	VPK1J120M0606	51	1000	0.10	151
	22	VPK1J220M0607	45	1200	0.10	277	6.3×7.7
	22	VPK1J220M0809	48	1600	0.10	277	8×9
	39	VPK1J390M0810	28	2100	0.10	491	8×10.2
	56	VPK1J560M0812	27	2500	0.10	705	8×12
	68	VPK1J680M1010	28	2500	0.10	856	10×10.2
	100	VPK1J101M1012	24	3200	0.10	1260	10×12.5
	80	12	VPK1K120M0607	50	1000	0.10	192
27		VPK1K270M0810	38	1400	0.10	432	8×10.2
39		VPK1K390M0812	35	1800	0.10	624	8×12
47		VPK1K470M1010	33	1800	0.10	752	10×10.2
68		VPK1K680M1012	28	2200	0.10	1088	10×12.5

◆ 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°C Temp.	+60	+70	+85	+105	+125
系数 Coefficient	1.73	1.62	1.43	1.25	1.00