



鋁電解電容器

Aluminum Electrolytic Capacitor

VHK Series 导电高分子混合型片式铝电解电容器 125°C4000 小时产品

Conductive polymer hybrid 125°C4000 hours Lifespan Aluminum Electrolytic Capacitor of SMD Type

■ 特性 Features

- 混合型电解质, 高耐压, 长寿命, 极低阻抗, 125°C. 4000 小时。(纹波叠加)
- 适用于高温高可靠性用途 ● 性能稳定, 可靠性高, 符合 RoHS ● 无卤对应品
- Mixed electrolytes, high pressure, long service life, Very low impedance, 125°C4000 hours.
(The superposition of ripple) ● Suitable for high temperature and high reliability purposes
- High stability and reliability. RoHS Compliance ● Halogen-free, corresponding product



■ 主要技术性能 Specifications

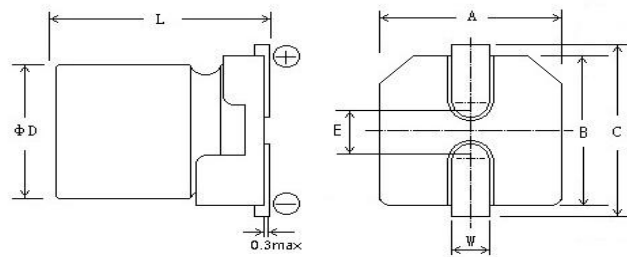
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使用温度范围 Operating Temperature Range	-55~+105°C					
额定电压范围 Rated Voltage Range	16~63V DC					
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)					
漏电流(20°C) Leakage Current	Rated voltage	16~63V				
	Time	2 分钟 (after 2 minutes)				
	Case Size	Φ6.3~Φ10				
	Leakage Current	I ≤ 0.01 CV I: 漏电流 (uA)、c: 静电容量 (uF)、V: 额定电压 (V dc)				
损耗角正切值 Dissipation Factor (120Hz 20°C)	WV (V)	16	25	35	50	63
	tg δ	0.16	0.14	0.12	0.10	0.08
温度特性 (120Hz) Temperature Characteristics ImpedanceRatio(100kHz)	WV(V)	16	25	35	50	63
	Z _{-25°C} /Z _{+20°C}	1.5	1.5	1.5	1.5	1.5
	Z _{-55°C} /Z _{+20°C}	2	2	2	2	2
耐久性 Load Life	+125°C施加额定电压 4000 小时,恢复 16 小时后,电容器应满足要求 After applying rated voltage for 4000hours at +125°C and then resumed 16 hours. The capacitor shall meet the following limits.					
	电容量变化率 Capacitance Change	≤ ±30%初始测量值 ≤ ±30% of Initial measured value				
	漏电流值 Leakage Current	≤ 规定值 ≤ The specified value				
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value				
	等效串联电阻(ESR) Equivalent series resistance	≤ 2 倍规定值 ≤ 200% of the specified value				

高温贮存 Shelf Life	+125°C,1000 小时, 恢复 16 小时后,电容器应满足下列要求。 After storage for 1000 hours at +125°C and then resumed 16 hours, the capacitor shall meet the following limits.	
	电容量变化率 Capacitance Change	≤ ±30%初始测量值 ≤ ±30% of Initial measured value
	漏电流值 Leakage	≤ 2 倍规定值 ≤ 200% of the specified value
	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value
	等效串联电阻(ESR) Equivalent series resistance	≤ 2 倍规定值 ≤ 200% of the specified value

■ 外形图及尺寸 Case size table



(mm)

■ 标称电容量、额定电压、额定纹波电流与外形尺寸对应表

ΦD	L	A±0.2	B±0.2	C±0.2	E±0.2	W
Φ6.3	5.8±0.2	6.6	6.6	7.4	1.9	0.5~0.8
Φ6.3	7.7±0.3	6.6	6.6	7.4	1.9	0.5~0.8
Φ8	10.2±0.5	8.3	8.3	9.1	3.1	0.9~1.1
Φ10	10.2±0.5	10.3	10.3	11.1	4.5	0.9~1.1
Φ10	12.5±0.3	10.3	10.3	11.1	4.5	0.9~1.1

Nominal capacitance, rated voltage, rated ripple current and case size table

WV Cap(μF)	16V			25V			35V			50V			63V		
	ΦD×L (mm)	I (mA)	ESR (mΩ)	ΦD×L (mm)	I (mA)	ESR (mΩ)	ΦD×L (mm)	I (mA)	ESR (mΩ)	ΦD×L (mm)	I (mA)	ESR (mΩ)	ΦD×L (mm)	I (mA)	ESR (mΩ)
10										6.3 × 6.0	1100	80	6.3 × 6.0	1000	120
										6.3 × 7.7	1500	80	6.3 × 7.7	1500	80
										8 × 10.2	1600	40	8 × 10.2	1600	40
										10 × 10.2	1800	30	10 × 10.2	1800	30
22							6.3 × 6.0	1300	60	6.3 × 6.0	1100	80	6.3 × 7.7	1500	80
										8 × 10.2	1600	40	8 × 10.2	1600	40
										10 × 10.2	1800	30	10 × 10.2	1800	30
33							6.3 × 6.0	1300	60	6.3 × 7.7	1600	40	8 × 10.2	1600	40
										8 × 10.2	1800	30	10 × 10.2	1800	30
47				6.3 × 6.0	1300	50	6.3 × 6.0	1300	60	8 × 10.2	1800	30			
							6.3 × 7.7	2000	35	8 × 10.2	1800	30			
56	6.3 × 6.0	1320	50	6.3 × 6.0	1300	50				10 × 10.2	2000	25	10 × 10.2	1800	30
68				6.3 × 7.7	2000	30	6.3 × 7.7	2000	35	8 × 10.2	1800	30			
82	6.3 × 6.0	1320	50												
100				6.3 × 7.7	2000	30	8 × 10.2	2300	27	10 × 10.2	2000	25			
120	6.3 × 7.7	1440	32												
150	6.3 × 7.7	2200	27	8 × 10.2	2300	27	8 × 10.2	2300	27						
							10 × 10.2	2500	20						
220	8 × 10.2	1600	27	8 × 10.2	2300	27									
270	8 × 10.2	2620	23	10 × 10.2	2500	20	10 × 10.2	2500	20						
330				10 × 10.2	2500	20									
470	10 × 10.2	2620	18												
560	10 × 12.5	3030	14												