

VP 缩体品 片式铝电解电容
Chip Type Aluminum Electrolytic Capacitors



产品特点 Features

适用-55℃~+105℃温度范围, 寿命2,000小时; 性能稳定, 可靠性高; 产品直径: φ 4mm~ φ 10mm
-55℃~+105℃ temperature range, life 2000 hours; stable performance, high reliability
The diameter of the product: φ 4mm~ φ 10mm

主要技术性能 Specifications

项目 Items	特性 Characteristics									
工作温度范围 Category Temperature Range	-55℃~+105℃									
额定电压范围 Rated Voltage Range	6.3~100V. DC									
标称电容量范围 Nominal Capacitance Range	10 μF ~ 1500 μF									
标称电容量允许偏差 Nominal Capacitance Tolerance	± 20%(120Hz,+20 °C)									
泄漏电流范围 Leakage Current(MAX)	I=0.01CV(μ A) or 3 (μ A) after 2 minutes I=Leakage Current(μ A) C=Nominal Capacitance(μ F) V=Roted Voltage(V)									
损耗角正切值 Dissipation Factor(MAX) Tan δ (20℃,120Hz)	Rated Voltage(V)	4	6.3	10	16	25	35	50	63	100
	Tan δ	0.35	0.30	0.24	0.20	0.18	0.16	0.14	0.14	0.14
耐久性 Load Life	+105℃施加额定工作电压2000H后, 放置16H, 电容器应满足以下要求。 After applying rated voltage with max ripple current for 2000hrs at 105℃,and then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	± 30%初始值以内		Within ± 30% of the initial value						
	Dissipation Factor	≤ 200%初始值以内		Not more than 200% of the specified value						
	Leakage Current	≤ 初始规定值		Not more than the specified value						
高温贮存 Shelf Life	+105℃, 贮存1000H后, 放置16H, 电容器应满足以下要求。 After storage for 1000hrs at 105℃, then resumed 16 hours, the capacitors shall meet the following requirements									
	Capacitance Change	± 30%初始值以内		Within ± 30% of the initial value						
	Dissipation Factor	≤ 200%初始值以内		Not more than 200% of the specified value						
	Leakage Current	≤ 300%初始值以内		Within 300% of initial specified value						
耐焊接热 Resistance to Soldering Heat	在250℃的条件下, 电容器在热板上保持30秒, 然后从热板上取出电容器, 让其在室温下恢复, 电容器应满足以下要求。 The capacitors shall be kept on then hot plate maintained at 250℃ for 30 seconds.After removing from the hot plate and restored at room temperature, they meet the following requirement:									
	Capacitance Change	± 10%初始值以内		Within ± 10% of the initial value						
	Dissipation Factor	≤ 初始规定值		Not more than the initial specified value						
	Leakage Current	≤ 初始规定值		Not more than the initial specified value						
低温特性及阻抗比 Low Temperature Stability Impedance Ratio (MAX) 120Hz	Roted Voltage (V)	4	6.3	10	16	25	35	50	63	100
	Z-25℃/Z+20℃ (120Hz)	< Φ8	7	4	3	2	2	2	2	2
		≥ Φ8	7	5	4	3	2	2	2	2
	Z-40℃/Z+20℃ (120Hz)	< Φ8	15	8	8	4	4	3	3	3
		≥ Φ8	15	10	8	6	4	3	3	3

■ 尺寸图 Dimensions

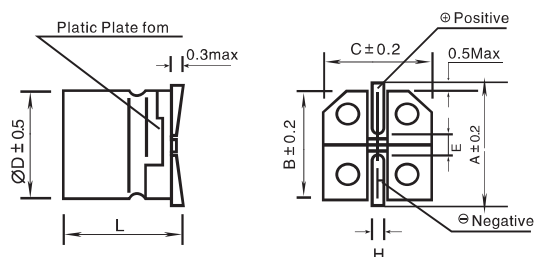


Fig. 1 (Φ4~Φ10)

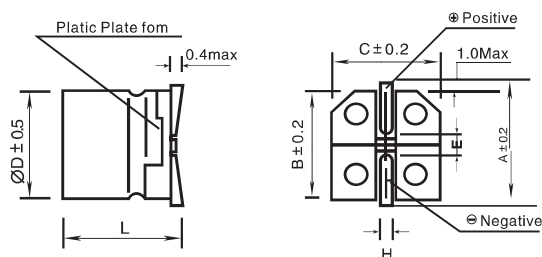


Fig. 2 (≥ Φ16.5)

单位: mm

ΦD	L	A	B	C	E	H	Fig.No.
4	5.4 ± 0.3	5.0	4.3	4.3	1.0	0.5~0.9	1
5	5.4 ± 0.3	6.0	5.3	5.3	1.5	0.5~0.9	1
6.3	5.4 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
6.3	7.7 ± 0.3	7.2	6.6	6.6	2.1	0.5~0.9	1
8	6.5 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
8	10.2 ± 0.5	9.1	8.3	8.3	3.1	0.8~1.1	1
10	10.2 ± 0.5	11.1	10.3	10.3	4.5	0.8~1.1	1
12.5	13.5 ± 0.5	13.7	13.0	13.0	4.4	1.0~1.4	2
16	16.5 ± 0.5	16.7	17	17	6.7	1.0~1.4	2

■ 标准品一览表 Standard Size

V	6.3		10		16		25		35		50		63		100	
μF	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA	D×Lmm	mA
47							5×5.4				6.3×5.4	50			8×10.5	130
100					5×5.4		6.3×5.4	60			6.3×7.7	80				
220	5×5.4	40			6.3×5.4	90	6.3×7.7	105				150				
330	6.3×5.4	70			6.3×7.7	110										
470					8×10.5	230										
680					10×10.5	290										
1000			8×10.5	230												
1500			10×10.5	230								10×10.5	230			

mA额定纹波电流 Rated ripple current(mA, 105°C, 120Hz)

■ 纹波电流修正系数 / 频率系数 Multiplier For Ripple Current / Frequency coefficient

频率 Frequency	50Hz	120Hz	300Hz	1kHz	≥10kHz
系数 Coefficient	0.70	1.00	1.17	1.36	1.50

注: 以上所提供的设计及特性参数仅供参考, 任何修改不做预先通知, 如在使用上有疑问, 请在采购前与我们联系, 以便提供技术上的协助。
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