

VA 型片式铝电解电容

VA Series Chip Type Aluminum Electrolytic Capacitors

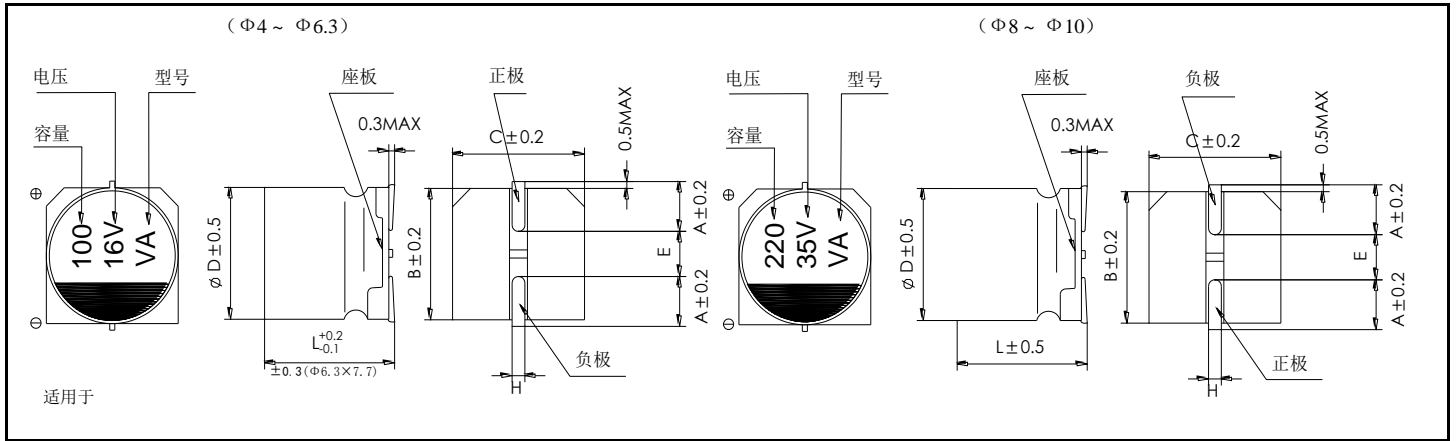
特点 Features

- 低阻抗。Low impedance.
- 适用于再流焊。Reflow soldering is available.
- 适用于高密度表面组装。available for high density surface mounting.
- 工作温度范围宽（-55℃ ~ +105℃）Operating over wide temperature range.
- ROHS 指令（2002/95/EC）已对应完毕。Adapted to the ROHS directive（2002/95/EC）。

主要技术性能 Specifications

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-55℃ ~+105℃						
额定电压范围 Rated Voltage Range	6.3V ~ 50V						
标称容量范围 Nominal Capacitance Range	1 ~ 1000μF						
标称容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)						
漏电流 Leakage Current	$I \leq 0.01C_R V_R$ or $3(\mu A)$, 取较大者 (2分钟) C_R : 标称容量 (μF) U_R : 额定电压 (V) $I \leq 0.01C_R V_R$ or $3(\mu A)$ Whichever is greater (at 20℃, after 2 minutes) C_R : Nominal Capacitance (μF) U_R : Rated voltages (V)						
损耗角正切 (tgδ) Dissipation Factor (Max) 20℃, 120Hz	U_R (V)	6.3	10	16	25	35	50
	tgδ	0.22	0.19	0.16	0.14	0.12	0.12
耐久性 Load Life	容量变化率 Capacitance Change	±30%初始值以内 Within ±30% of the initial value					
	损耗角正切 Dissipation Factor	≤ 300%初始规定值 Not more than 300% of the initial specified value					
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value					
高温贮存 Shelf Life	+105℃ 贮存 1000 小时后, 电容器应满足以上耐久性要求 After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above						
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	U_R (V)	6.3	10	16	25	35	50
	$Z(-25^\circ C)/Z(+20^\circ C)$	2	2	2	2	2	2
耐焊接热 Resistance to Soldering Heat	容量变化率 Capacitance Change	±10%初始值以内 Within ±10% of the initial value					
	损耗角正切 (tgδ) Dissipation Factor	≤ 初始规定值 Not more than the initial specified value					
	漏电流 Leakage Current	≤ 初始规定值 Not more than the initial specified value					

尺寸图 Dimensions



(mm)

	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	8 × 6.5	8 × 10.5	10 × 10.5	
A	3.0	2.1	2.4	2.4	2.9	2.9	3.2	
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5	
L	5.4	5.4	5.4	7.7	6.5	10.5	10.5	
H	0.5 ~ 0.8					0.8 ~ 1.1		

■ 标称容量、额定电压、额定纹波电流与外形尺寸对应表

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

V	6.3			10			16			25			35			50		
	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA	DxL mm	Impedance Ω	I~ mA
1.0																4x5.4	5.00	30
2.2																4x5.4	5.00	30
3.3																4x5.4	5.00	30
4.7													4x5.4	3.0	60	5x5.4	3.0	50
10										4x5.4	3.00	60	5x5.4	1.8	95	6.3x5.4	2.0	70
22				4x5.4	3.00	60	5x5.4	1.8	95	5x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	2.0	70
33	5x5.4	1.8	95	5x5.4	1.8	95	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	1.4	120
47	5x5.4	1.8	95	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	1.4	120
100	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x5.4	1.0	140	6.3x7.7	0.7	220	8x10.5	0.3	300	8x10.5	0.6	300
220	6.3x5.4	1.0	140	6.3x7.7	0.7	220	6.3x7.7	0.7	220	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.3	500
330	6.3x7.7	0.7	220	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.15	650			
470	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.15	650						
1000	8x10.5	0.3	450	10x10.5	0.15	650												

— I~=Rated ripple current (mA) (105°C, 100kHz) I~=额定纹波电流 (mA) (105°C, 100kHz)

— 20°C 100 KHz 时的电阻 (Ω) MAX

■ 额定纹波电流的频率系数

Frequency coefficient of ripple current

Frequency 频率	50Hz	120Hz	300Hz	1KHz	≥ 10KHz
Coefficient 系数	0.64	0.50	0.64	0.83	1.00