

VA 型片式铝电解电容

VA Series Chip Type Aluminum Electrolytic Capacitors

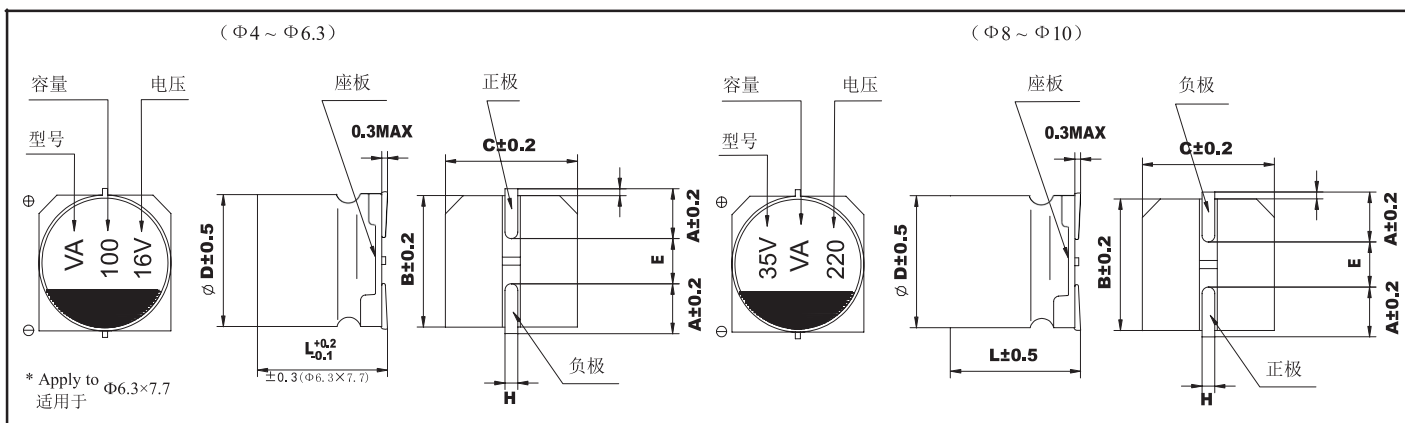
特点 Features

- 宽温低阻抗长寿命。Wide temperature of long life and low impedance.
- 适用于回流焊。Reflow soldering is available.
- 适用于高密度表面贴装。Suitable for high density SMT.
- 工作温度范围宽 (-55°C ~ +105°C) Operating over wide temperature range.
- 符合ROHS指令标准。Comply with ROHS directive standards.

主要技术性能 Specifications

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-55°C ~ +105°C						
额定电压范围 Rated Voltage Range	6.3V ~ 35V						
标称容量范围 Nominal Capacitance Range	1 ~ 1000 μ F						
标称容量允许偏差 Nominal Capacitance Tolerance	$\pm 20%$ (20°C, 120Hz)						
漏电流 Leakage Current	I ≤ 0.01 CRVR or 3(μ A), 取较大者 (2 分钟) CR: 标称容量 (μ F) UR: 额定电压 (V) I ≤ 0.01 CRVR or 3(μ A) Whichever is greater(at 20°C, After 2 minutes) CR: Nominal Capacitance (μ F) UR: Rated voltages (V)						
损耗角正切 (tg δ) Dissipation Factor (Max) 20°C, 120Hz	UR (V)	6.3	10	16	25	35	
	tg δ	0.22	0.19	0.16	0.14	0.12	
耐久性 Load Life	+105°C施加额定电压 2000小时后, 电容器应满足以下要求: After 2000hours' application of rated voltage at 105°C, the capacitor shall meet the following requirement:						
	电容量变化率 Capacitance Change	$\pm 30%$ 初始值以内 Within $\pm 30%$ of the initial value					
	损耗角正切 Dissipation Factor	$\leq 300%$ 初始规定值 Not more than 200% of the initial specified value					
	漏电流 Leakage Current	\leq 初始规定值 Not more than the initial specified value					
高温贮存 Shelf Life	+105°C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 +125°C, the capacitors shall meet the requirement of load life above						
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	UR (V)	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2
	Z(-40°C)/Z(+20°C)	4	4	3	3	3	3
耐焊接热 Resistance to Soldering Heat	在 250°C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 the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.						
	电容量变化率 Capacitance Change	$\pm 10%$ 初始值以内 Within $\pm 10%$ of the initial value					
	损耗角正切 Dissipation Factor	\leq 初始规定值 Not more than the initial specified value					
	漏电流 Leakage Current	\leq 初始规定值 Not more than the initial specified value					

外形图及尺寸表 Case Size Table



	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7	8 x 6.5	8 x 10.5	10 x 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	

■ 标称电容量、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		
	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	Impedance Ω	I~ mA	D×L mms	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	1.8	80	5x5.4	1.52	85
10										4x5.4	1.80	80	5x5.4	0.76	150	6.3x5.4	0.88	165
22				4x5.4	1.80	80	5x5.4	0.76	150	5x5.4	0.76	150	5x5.4	0.76	150	6.3x5.4	0.88	165
33	5x5.4	0.76	150	5x5.4	0.76	150	6.3x5.4	0.44	230	5x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.68	185
47	5x5.4	0.76	150	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.34	280	8x10.5	0.34	350
100	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.34	280	8x10.5	0.17	600	10x10.5	0.18	670
220	6.3x5.4	0.44	230	6.3x7.7	0.34	280	6.3x7.7	0.34	280	8x10.5	0.17	600	10x10.5	0.09	850			
330	6.3x7.7	0.34	280	8x10.5	0.17	600	8x10.5	0.17	600	10x10.5	0.09	850						
470	8x10.5	0.17	600	8x10.5	0.17	600	10x10.5	0.09	850									
1000	10x10.5	0.09	850	10x10.5	0.09	850												

I~=Rated ripple current (mA) (105°C, 100kHz) I~=额定纹波电流 (mA) (105°C, 100kHz) 20°C 100kHz 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	0.35	0.50	0.64	0.83	1.00