

VN 片式铝电解电容

VN Chip Type Aluminum Electrolytic Capacitors



Chip

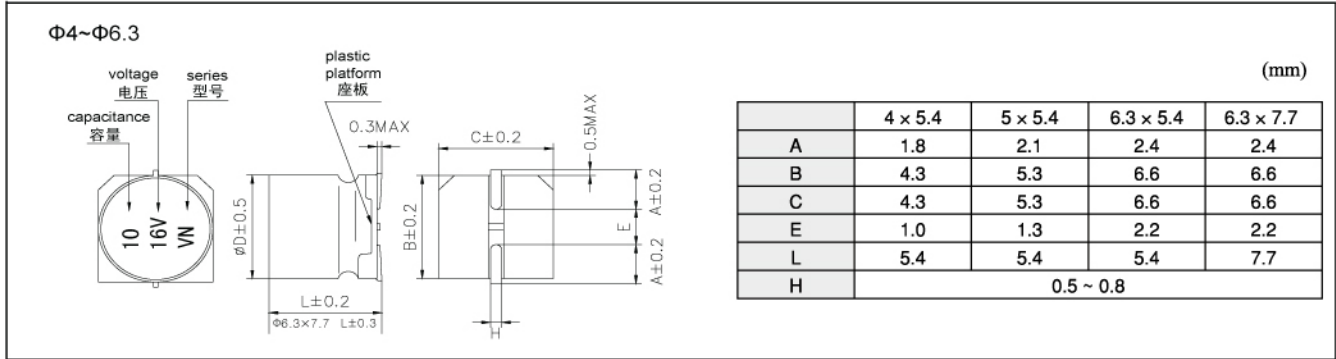
■ 特点 Features

- ◎ 双极性。Bi-polar.
- ◎ 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.
- ◎ RoHS指令已对应完毕。Adapted to the RoHS directive.

■ 主要技术性能 Specifications

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-40℃ ~ +85℃						
额定电压范围 Rated Voltage Range	6.3V ~ 50V						
标称电容量范围 Nominal Capacitance Range	0.1 ~ 100 μF						
标称电容量允许偏差 Nominal Capacitance Tolerance	±20% (20℃, 120Hz)						
正反向漏电流 Leakage Current	$I \leq 0.05C_R V_R$ or $10(\mu A)$, 取较大者(2分钟) C_R : 标称电容量(μF) U_R : 额定电压(V) $I \leq 0.05C_R V_R$ or $10(\mu A)$ Whichever is greater(at 20℃, after 2 minutes) C_R : Nominal Capacitance (μF) U_R : Rated voltages (V)						
损耗角正切 (tg δ) Dissipation Factor (Max)20℃, 120Hz	U_R (V)	6.3	10	16	25	35	50
	tg δ	0.26	0.22	0.20	0.20	0.20	0.18
耐久性 Load Life	+85℃施加额定电压1000小时后, 每250小时换向一次, 电容器应满足以下要求: After 1000 hours' application of rated voltage at 85℃, with the polarity inverted every 250 hours, the capacitor shall meet the following requirement:						
	电容量变化率 Capacitance Change	±20% 初始值以内 Within ±20% of the initial value					
	损耗角正切 Dissipation Factor	≤ 200% 初始规定值 Not more than 200% of the initial specified value					
高温贮存 Shelf Life	+85℃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 +85℃, the capacitors shall meet the requirement of load life above:						
	U_R (V)	6.3	10	16	25	35	50
低温特性 Low Temperature Stability 阻抗比 Impedance Ratio (120Hz)	$Z(-25℃)/Z(+20℃)$	4	3	2	2	2	2
	$Z(-40℃)/Z(+20℃)$	8	6	4	4	3	3
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 the hot plate maintained at 250℃ 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	±10% 初始值以内 Within ±10% of the initial value					
	损耗角正切 (tg δ) 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



◇ 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 μF	6.3		10		16		25		35		50	
	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA	DxL mm	I~ mA
0.1											4 × 5.4	2.3
0.22											4 × 5.4	3.3
0.33											4 × 5.4	4.1
0.47											4 × 5.4	4.9
1.0											4 × 5.4	8.4
2.2									4 × 5.4	10	5 × 5.4	13
3.3							4 × 5.4	13	5 × 5.4	17	5 × 5.4	17
4.7					4 × 5.4	14	5 × 5.4	20	5 × 5.4	21	6.3 × 5.4	20
10			4 × 5.4	18	5 × 5.4	26	6.3 × 5.4	35	6.3 × 5.4	35	6.3 × 7.7	36
22	5 × 5.4	5 × 5.4	6.3 × 5.4	40	6.3 × 5.4	45	6.3 × 7.7	50	6.3 × 7.7	54		
33	6.3 × 5.4	6.3 × 5.4	6.3 × 5.4	50	6.3 × 5.4	55	6.3 × 7.7	61				
47	6.3 × 5.4	6.3 × 5.4	6.3 × 7.7	61	6.3 × 7.7	75						
100	6.3 × 7.7	6.3 × 7.7										

I~ = Rated ripple current (mA) (85°C, 120Hz) I~ = 额定纹波电流 (mA) (85°C, 120Hz)

◇ 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	0.70	1.00	1.17	1.36	1.50

Chip