

VN 型片式铝电解电容

VN Series Chip Type Aluminum Electrolytic Capacitors



■ 特点 Features

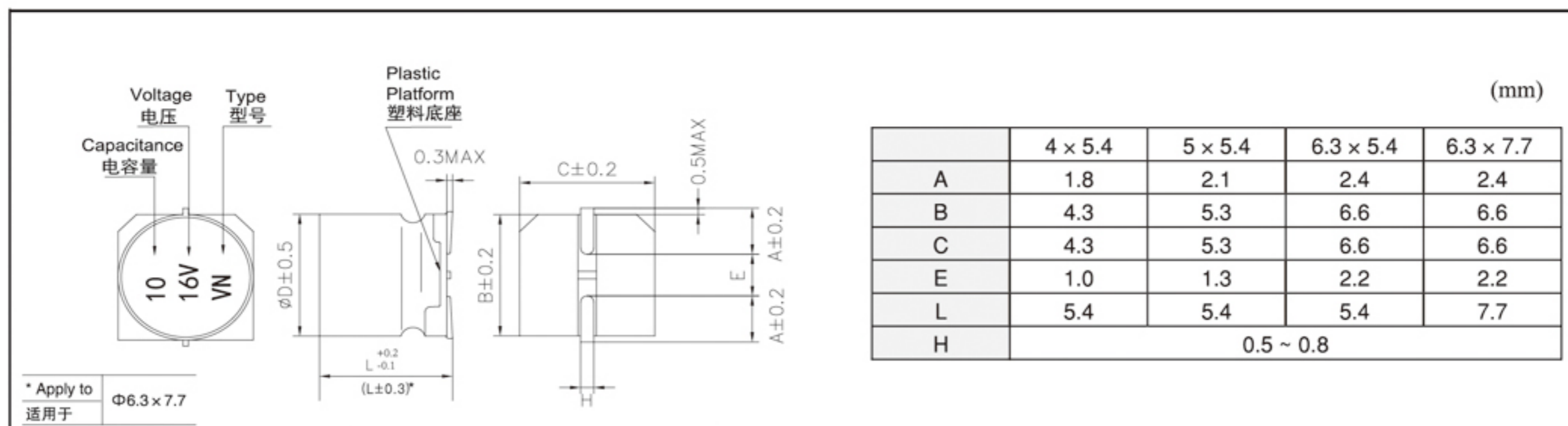
- ◎ 双极性。Bi-polar.
- ◎ 适用于再流焊。Reflow soldering is available.
- ◎ 适用于高密度表面组装。Available for high density surface mounting.
- ◎ ROHS指令已对应完毕。Adapted to the ROHS directive.

■ 主要技术性能 Specifications

项目 Items	特性 Characteristics						
工作温度范围 Operating Temperature Range	-40°C ~ +85°C						
额定电压范围 Rated Voltage Range	6.3V ~ 50V						
标称容量范围 Nominal Capacitance Range	0.1 ~ 100 μF						
标称容量允许偏差 Nominal Capacitance Tolerance	± 20% (20°C, 120Hz)						
正反向漏电流 Leakage Current	I ≤ 0.05C _R V _R or 10(μA), 取较大者 (2分钟) C _R : 标称容量 (μF) U _R : 额定电压 (V) I ≤ 0.05C _R V _R or 10(μA) Whichever is greater (at 20°C, after 2 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V)						
损耗角正切 (tg δ) Dissipation Factor (Max) 20°C, 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°C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°C, 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°C贮存1000小时后, 加额定工作电压30分钟, 电容器应满足以上耐久性要求: After storage for 1000 hours at +85°C, U _R to be applied for 30 minutes, the capacitors shall meet the requirement of load life above:						
	U _R (V)	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2
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	± 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						

Chip

■ 尺寸图 Dimensions



Chip

◇ 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		28	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	37	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	45	6.3 × 5.4	50	6.3 × 5.4	55	6.3 × 7.7	61				
47	6.3 × 5.4	82	6.3 × 7.7	61	6.3 × 7.7	75						
100	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