

## VN Series

## 性能特点 Feature

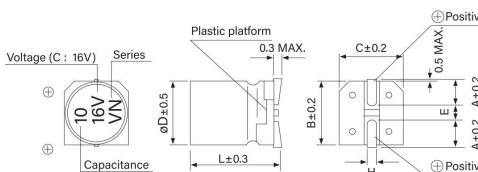
- 无极性 nonpolarity.
- 适用于再流焊 Reflow soldering is available.
- 适用于高密度表面组装 Available for high density surface mounting.
- ROHS 指令已对应完毕 Adapted to the ROHS directive.



## 技术性能 Specifications

项目 Item	特性 Performance Characteristics					
使用温度范围 Operating temperature range	-55~+105°C					
额定电压范围 Rated voltage range	6.3~50V					
标称电容量范围 Nominal capacitance range	0.1~100μF					
标称电容量允许偏差 Capacitance tolerance	±20%(120Hz, +20°C)					
漏电流 Leakage current	I ≤ 0.05C <sub>n</sub> V <sub>r</sub> (μA), 2 分钟 取较大者 C <sub>n</sub> : 标称电容量 (μF) U <sub>r</sub> : 额定电压 (V) (at 20°C, after 2 minutes) (whichever is greater) C <sub>n</sub> : Nominal Capacitance U <sub>r</sub> : Rated voltage(V)					
损耗角正切值 (tg δ) Dissipation factor (+20°C~120Hz)	U <sub>r</sub> (V)	6.3	10	16	25	35
	tg δ	0.26	0.22	0.20	0.20	0.18
容量大于 1000μF 者, 每增加 1000μF, 其损耗角正切值增加 0.02 When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.						
耐久性 Load life	+105°C 施加额定电压 2000 小时后, 每 250 小时换向一次, 电容器应满足以下要求: After 2000 hours' application of rated voltage at 105°C, with the polarity inverted every 250 hours, the capacitor shall meet the following requirement:					
	电容量变化率 Capacitance change : ±30% 初始测量值以内 Within ±30% of the initial value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value					
	损耗角正切值 Dissipation factor : ≤ 300% 初始规定值 ≤ 300% of the initial specified value					
高温储存 Shelf life	+105°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 +105°C, U <sub>r</sub> to be applied for 30 minutes, the capacitors shall meet the requirement of load life above.					
	低温特性 Low Temperature Stability 阻抗比 Impedance Ratio(120Hz)					
耐焊接热 Resistance to Soldering Heat	U <sub>r</sub> (V)	6.3	10	16	25	35
	Z-25°C/Z+20°C	4	3	2	2	2
	Z-40°C/Z+20°C	8	6	4	4	3
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% 初始测量值以内 Within ±10% of the initial value 漏电流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 初始规定值 ≤ the initial specified value						

## 尺寸和标记 Dimensions And Marking



\* 适用于 Apply to ø6.3x7.7

## VN Series

## 标准评级 Standard Ratings

额定纹波电流 Rated Ripple Current (mA,+105°C,120Hz)

电压 U <sub>r</sub> 容量 C <sub>n</sub> (μF)	6.3		10		16		25		35		50	
	Case Size øD×L (mm)	Rated Ripple Current										
0.1											4x5.4	2.3
0.22											4x5.4	3.4
0.33											4x5.4	4.1
0.47											4x5.4	4.9
1.0											4x5.4	8.4
2.2											4x5.4	10
3.3											5x5.4	17
4.7											5x5.4	21
10			4x5.4	18	5x5.4	26	6.3x5.4	35	6.3x5.4	35	6.3x7.7	36
22	5x5.4	28	6.3x5.4	40	6.3x5.4	45	6.3x7.7	50	6.3x7.7	54		
33	6.3x5.4	45	6.3x5.4	50	6.3x5.4	55	6.3x7.7	61				
47	6.3x5.4	45	6.3x7.7	61	6.3x7.7	75						
100	6.3x7.7	82										

\* 支持客户根据需求定制 Support Customer Customization According To Demand

## 允许纹波电流的频率校正系数 Frequency Correction Factor Of Allowable Ripple Current

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

	4x5.4	5x5.4	6.3x5.4	6.3x7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7
H	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8