

VN Series

性能特点 Feature

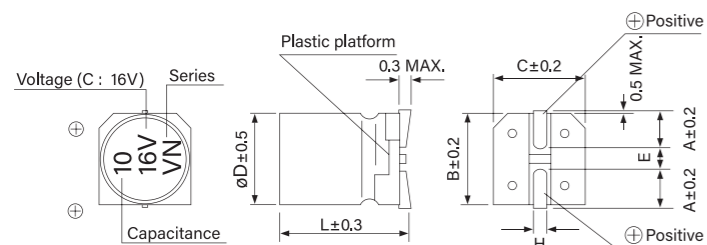
- 无极性 nonpolarity.
- 适用于再流焊 Reflow soldering is available.
- 适用于高密度表面组装 Available for high density surface mounting.
- ROHS 指令已对应完毕 Adapted to the ROHS directive.



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
标称容量范围 Nominal capacitance range	0.1~100μF
标称容量允许偏差 Capacitance tolerance	±20%(120Hz, +20°C)
漏电流 Leakage current	$I \leq 0.05C_n V_R$ (μA), 2 分钟 取较大者 C_n : 标称容量 (μF) U_R : 额定电压 (V) (at 20°C, after 2 minutes) (whichever is greater) C_n : Nominal Capacitance U_R : Rated voltage(V)
损耗角正切值 (tg δ) Dissipation factor (+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
	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: 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_R 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)	U_R (V) 6.3 10 16 25 35 50
	Z-25°C/Z+20°C 4 3 2 2 2 2
	Z-40°C/Z+20°C 8 6 4 4 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. 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



	4×5.4	5×5.4	6.3×5.4	6.3×7.7
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

* 适用于 Apply to φ6.3×7.7

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标准评级 Standard Ratings

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

电压 U_R	6.3		10		16		25		35		50	
	Case Size φD×L (mm)	Rated Ripple Current	Case Size φD×L (mm)	Rated Ripple Current	Case Size φD×L (mm)	Rated Ripple Current	Case Size φD×L (mm)	Rated Ripple Current	Case Size φD×L (mm)	Rated Ripple Current	Case Size φD×L (mm)	Rated Ripple Current
容量 C_n (μF)												
0.1											4×5.4	2.3
0.22											4×5.4	3.4
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	28	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	45	6.3×7.7	61	6.3×7.7	75						
100	6.3×7.7	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