

VLD Series (NEW)

- 寿命: 105°C, 2000 小时 ● 适用于回流焊
- 适用于高密度表面组装 ● 性能稳定, 符合 RoHS
- Lifetime: 105°C, 2000Hr ● Reflow soldering is available
- Available for high density surface mounting ● High stability, RoHS Compliance

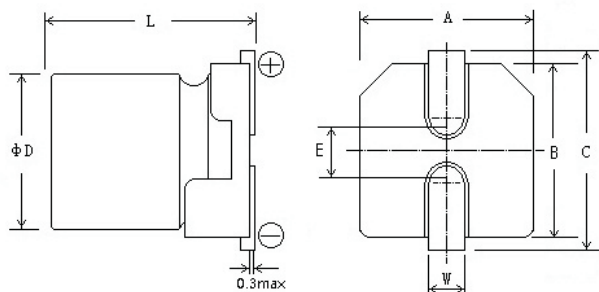


■主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-55 ~ +105°C		-25 ~ +105°C														
额定电压范围 Rated Voltage Range	6.3 ~ 100V DC		160 ~ 450V DC														
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20°C)																
漏电流 Leakage Current	I ≤ 0.01C _n U _n (μ A) 或 3 μ A 取较大者 (2 分钟) I ≤ 0.01C _n U _n (μ A) or 3 μ A Whichever is greater (after 2 minutes)		I ≤ 0.03C _n U _n (μ A) + 100 μ A max. (2 分钟) I ≤ 0.03C _n U _n (μ A) + 100 μ A max. (after 2 minutes)														
损耗角正切值 Dissipation Factor (120Hz 20°C)	U _n (V)	6.3	10	16	25	35	50	63	100	160~250	400&450						
	tg δ	0.36	0.32	0.28	0.24	0.22	0.18	0.14	0.12	0.20	0.25						
温度特性 Temperature Characteristics Impedance Ratio (120Hz)	U _n (V)	6.3	10	16	25	35	50	63	100	160~250	400&450						
	Z _{-25°C} /Z _{+20°C}	4	3	2	2	2	2	3	3	3	6						
	Z _{-40°C} /Z _{+20°C}	10	8	6	5	4	3	4	4	6	10						
耐久性 Load Life	<p>+105°C施加额定电压 2000 小时,恢复 16 小时后,电容器应满足要求 After applying for 2000 hours at +105°C and then resumed 16 hours. the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤ ± 25% 初始测量值 (≤10V: ± 30% 初始值) ≤ ± 25% of Initial measured value (≤10V: ± 30% of the initial value)</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 2 倍规定值 ≤ 200% of the specified value</td> </tr> </table>											电容量变化率 Capacitance Change	≤ ± 25% 初始测量值 (≤10V: ± 30% 初始值) ≤ ± 25% of Initial measured value (≤10V: ± 30% of the initial value)	漏电流值 Leakage	≤ 规定值 ≤ The specified value	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value
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高温贮存 Shelf Life	<p>+105°C,1000 小时,取出后按照 JISC 5101-4 4.1 项预处理后测量,电容器应满足下列要求。 After storage for 1000 hours at +105°C and then the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4, the capacitor shall meet the following limits.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 2 倍规定值 ≤ 200% of the specified value</td> </tr> </table>											电容量变化率 Capacitance Change	≤ ± 20% 初始测量值 ≤ ± 20% of Initial measured value	漏电流值 Leakage	≤ 规定值 ≤ The specified value	损耗角正切值 Dissipation Factor	≤ 2 倍规定值 ≤ 200% of the specified value
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耐焊接热 Resistance to Soldering Heat	<p>在 250°C 的条件下,电容器应在热板上保持 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, then meet the following requirement.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤ ± 10% 初始测量值 ≤ ± 10% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤ 规定值 ≤ The specified value</td> </tr> </table>											电容量变化率 Capacitance Change	≤ ± 10% 初始测量值 ≤ ± 10% of Initial measured value	漏电流值 Leakage	≤ 规定值 ≤ The specified value	损耗角正切值 Dissipation Factor	≤ 规定值 ≤ The specified value
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■ 尺寸及印字 Dimensions & Marking



mm

Size	φ 12.5 × 13.5	φ 12.5 × 16	φ 16 × 16.5	φ 16 × 21.5
A ± 0.2	13	13	17	17
B ± 0.2	13	13	17	17
C ± 0.3	13.8	13.8	18	18
E	4.2	4.2	6.5	6.5
L ± 0.5	13.5	16	16.5	21.5
W	0.8~1.2		1.0~1.6	

■ 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

WV μF	6.3		10		16		25	
	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA
1000					12.5 × 13.5	660	12.5 × 13.5	700
2200	12.5 × 13.5	850	12.5 × 13.5	910	16 × 16.5	1100	16 × 21.5	1380
3300	12.5 × 16	950	16 × 16.5	1220	16 × 21.5	1380		
4700	16 × 16.5	1320	16 × 21.5	1480				
6800	16 × 21.5	1680						

WV μF	35		50		63		100	
	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA
100					12.5 × 13.5	370	12.5 × 13.5	420
220					12.5 × 13.5	560	16 × 21.5	810
330			12.5 × 13.5	580	12.5 × 16	700		
470	12.5 × 13.5	580	12.5 × 16	710	16 × 16.5	910		
1000	16 × 16.5	1050	16 × 21.5	1250				

WV μF	160		250		400		450	
	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA	D × L mm	I ~ mA
4.7					12.5 × 13.5	115	12.5 × 13.5	115
10			12.5 × 13.5	140	12.5 × 16	125	16 × 16.5	130
22			12.5 × 16	230	16 × 21.5	260	16 × 21.5	260
33			16 × 16.5	320				
47	12.5 × 16	360	16 × 21.5	400				
100	16 × 21.5	560						

I ~ 额定纹波电流 Rated ripple current : (mA , 105°C, 120Hz)