

VLD Series 片式铝电解电容器 105°C2000 小时产品

Super Large Size Aluminum Electrolytic Capacitor of V-chip Type

- 寿命: 105°C, 2000 小时 • 适用于回流焊
- 适用于高密度表面组装 • 符合 AEC-Q200
- Lifetime: 105°C, 2000Hours • Reflow soldering is available
- Available for high density surface mounting • AEC-Q200 Compliance

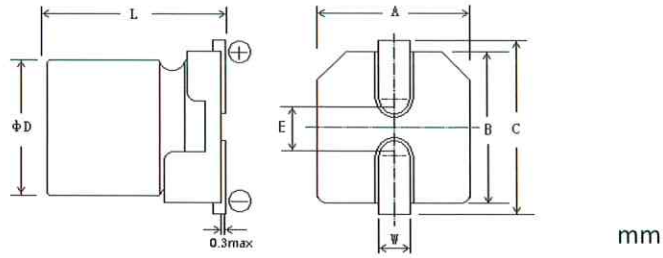


■ 主要技术性能 Specifications

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(20°C) Leakage Current	≤0.01C _R U _R (μA) 或 3μA 取较大者 (2 分钟) ≤0.01C _R U _R (μA) or 3μA Whichever is greater (after 2 minutes)	≤0.03C _R U _R (μA)+100μA max. (2 分钟) ≤0.03C _R U _R (μA)+100μA max. (after 2 minutes)																																										
损耗角正切值 Dissipation Factor (120Hz 20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160~250</td> <td>400&450</td> </tr> <tr> <td>tgδ</td> <td>0.36</td> <td>0.32</td> <td>0.28</td> <td>0.24</td> <td>0.22</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.20</td> <td>0.25</td> </tr> </table>											WV	6.3	10	16	25	35	50	63	100	160~250	400&450	tgδ	0.36	0.32	0.28	0.24	0.22	0.18	0.14	0.12	0.20	0.25											
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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>电容器变化率 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>											电容器变化率 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 JIS C 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>电容器变化率 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>											电容器变化率 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>电容器变化率 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>											电容器变化率 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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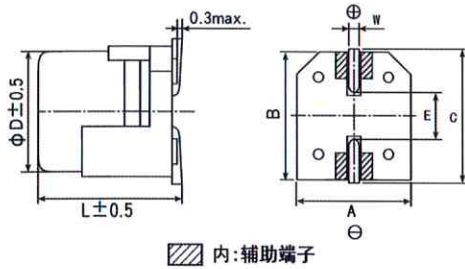
VLD Series

■ 外形图及尺寸 Case size table



size	φ12.5×13.5	φ12.5×16	φ16×16.5	φ16×21.5
A±0.2	13	13	17	17
B±0.2	13	13	17	17
C±0.3	13.8	13.8	18	18
E	5.2	5.3	6.5	6.5
L±0.5	13.5	16	16.5	21.5
W	0.8~1.2		1.0~1.6	

抗振产品尺寸



size	φ12.5×13.5-C
B±0.2	13.4
A±0.2	13.0
E±0.2	5.0
L±0.5	13.5
C±0.3	14.2
W	0.8~1.2

备注：其它尺寸，请另行咨询

■ 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	6.3V		10V		16V		25V	
	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	35V		50V		63V		100V	
	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				

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

VLD Series

■ 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	160V		250V		400V		450V	
	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						

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

■ 额定纹波电流的频率系数 Frequency coefficient of rated ripple current

Frequency 频率	50Hz	120Hz	1KHz	≥10KHz
C≤1000	0.80	1.00	1.25	1.40
1000<C≤4700	0.85	1.00	1.15	1.25
4700<C≤6800	0.85	1.00	1.05	1.08