

VLD Series 片式铝电解电容器 105°C 2000 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, 2000Hr ● Reflow soldering is available
- Available for high density surface mounting ● AEC-Q200 Compliance



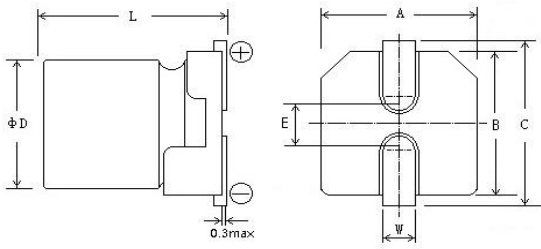
■主要技术性能 Specifications

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	I ≤ 0.01CV(μA) 或 3 μA 取较大者, (2 分钟) I ≤ 0.01CV(μA) or 3 μA Whichever is greater (after 2 minutes)					I ≤ 0.03CV(μA)+100 μA max. (2 分钟) I ≤ 0.03CV(μA)+100 μA max. (after 2 minutes)					
I=Leakage Current(μA), C=Capacitance(μF), V=Rated DC Working Voltage(V)											
损耗角正切值 Dissipation Factor (120Hz, 20°C)	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
0.02 is added to every 1000μF increase over 1000μF											
温度特性 Temperature Characteristics Impedance Ratio (120Hz)	WV	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	+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.										
	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									
高温贮存 Shelf Life (105°C)	试验时间: 1000 小时, 其他项目与耐久性相同。电压应用处理: 根据 JIS C5101-4 4.1 Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1										
额定纹波电流频率系数 Coefficient of Frequency for Rated Ripple Current	Frequency Capacitor	50Hz	120Hz	1KHz	≥10KHz						
	C ≤ 1000 μF	0.80	1.00	1.25	1.40						
	1000 μF < C ≤ 4700 μF	0.85	1.00	1.15	1.25						
	4700 μF < C ≤ 6800 μF	0.85	1.00	1.05	1.08						

■外形图 Outline Drawing

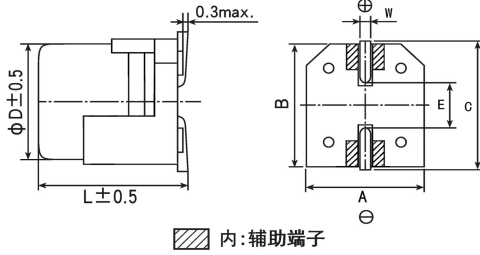
单位 Unit : mm

Standard Type



Size	φ 12.5×13.5	φ 12.5×16	φ 16×16.5	φ 16×21.5	φ 18×16.5
A±0.2	13.0	13.0	17	17	19
B±0.2	13.0	13.0	17	17	19
E±0.2	5.2	5.2	6.5	6.5	6.5
L±0.5	13.5	16	16.5	21.5	16.5
C±0.2	13.8	13.8	18	18	20
W	1.1 ~ 1.4				

For Vibration Resistance Type



Size	φ 12.5×13.5	φ 12.5×16
A±0.2	13.0	13.0
B±0.2	13.4	13.4
E±0.2	5.2	5.2
L±0.5	13.5	16
C±0.2	13.8	13.8
W	1.1 ~ 1.4	

*Please refer to the standard type for other sizes

■ 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

Cap(μF)	6.3V		10V		16V		25V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×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	12.5×16 16×16.5	940 1100	16×16.5	1100
3300	12.5×16	950	16×16.5	1220	16×16.5	1220	18×16.5	1380
4700	16×16.5	1320	16×16.5 16×21.5	1220 1480	18×16.5	1380		
6800	16×21.5 18×16.5	1680 1680	18×16.5	1680				
Cap(μF)	35V		50V		63V		100V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)
100					12.5×13.5	370	12.5×13.5	420
220					12.5×13.5	560	16×16.5 16×21.5	720 810
330			12.5×13.5	580	12.5×16	700	18×16.5	810
470	12.5×13.5	580	12.5×13.5 12.5×16	660 710	16×16.5	910		
680	12.5×13.5	600	16×16.5	830	18×16.5	1000		
1000	12.5×16 16×16.5	890 1050	16×21.5 18×16.5	1250 1250				
2200	18×16.5	1280						

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

■ 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 Cap(μF)	160V		250V		400V		450V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)
4.7					12.5×13.5	115	12.5×13.5	115
10			12.5×13.5	140	12.5×13.5 12.5×16	115 125	12.5×13.5 16×16.5	115 130
22			12.5×13.5 12.5×16	210 230	16×16.5 16×21.5	230 260	16×16.5 16×21.5	230 260
33	12.5×13.5	95	16×16.5	320	18×16.5	260	18×16.5	260
47	12.5×13.5 12.5×16	205 360	16×16.5 16×21.5	320 400				
100	16×16.5 16×21.5	500 560	18×16.5	400				

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