VTD Series 片式铝电解电容器大尺寸品

Large Size Aluminum Electrolytic Capacitor of V-chip Type

- 寿命：105℃，2000 小时 • 适用于回流焊
- 适用于高密度表面组装 • 性能稳定、可靠性高
- Lifetime: 105℃,2000Hr • Reflow soldering is available
- Available for high density surface mounting • High stability and reliability

■ 主要技术性能 Specifications

使用温度范围 Operating Temperature Range	−55 ~ +105℃
额定电压范围 Rated Voltage Range	6.3 ~ 100V DC
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20℃)
漏电流 Leakage Current	I≤0.01$C_R U_R$(μA)或 3μA 取较大者，(2 分钟) I≤0.01$C_R U_R$(μA) or 3μA Whichever is greater (after 2 minutes)

损耗角正切值 Dissipation Factor (120Hz 20℃)

U_R(V)	6.3	10	16	25	35	50	63	100
tg δ	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.12

温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)

U_R(V)	6.3	10	16	25	35	50	63	100
$Z_{-25℃}/Z_{+20℃}$	4	3	2	2	2	2	3	3
$Z_{-40℃}/Z_{+20℃}$	8	6	4	4	3	3	4	4

耐久性 Load Life

+105℃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 hoursat +105℃ and then resumed 16 hours. the capacitor shall meet the following limits.

电容量变化率 Capacitance Change	≤ ± 20%初始测量值(≤16V: ± 25%初值) ≤ ± 20% of Initial measured value (≤16V: ± 25% 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℃,1000 小时, 恢复 16 小时后,电容器应满足下列要求。
After storage for 1000 hours at +105℃ and then resumed 16 hours, the capacitor shall meet the following limits.

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

耐焊接热 Resistance to Soldering Heat

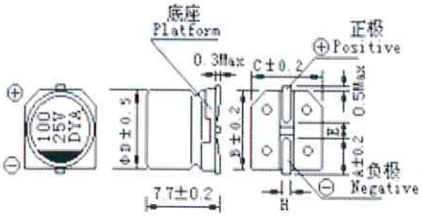
在 250℃的条件下,电容器应在热板上保持 30 秒,然后从热板上取出电容器,让其在室温下恢复,电容器应满足以下要求:
The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature,then meet the following requirement.

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

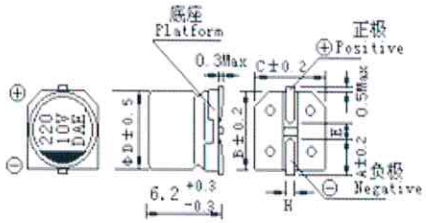
VTD Series

■ 尺寸及印字 Dimensions & Marking

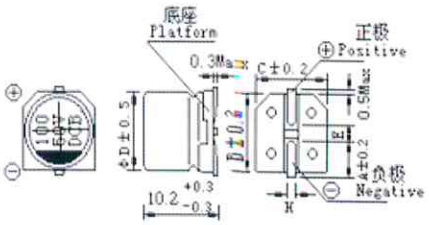
(φ6.3×7.7)



(φ8×6.2)



(φ8~φ 10×10.2)



mm

Size	φ6.3×7.7	φ8×6.2	φ8×10.2	φ10×10.2
A	2.5	2.9	2.9	3.2
B	6.6	8.3	8.3	10.3
C	6.6	8.3	8.3	10.3
E	2.2	3.1	3.1	4.5
L	7.7	6.2	10.2	10.2
H	0.5~0.9	0.8~1.1		

■ 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 / mA / 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
100							6.3×7.7 8×6.2	91 105
220	6.3×7.7 8×6.2	105 115	6.3×7.7 8×6.2	110 120	(6.3×7.7) 8×6.2	(105) 125	8×10.2	175
330	6.3×7.7 8×6.2	110 120	8×10.2	196	8×10.2	195	10×10.2 (8×10.2)	240 (220)
470	8×10.2	210	8×10.2	210	10×10.2 (8×10.2)	295 (230)	10×10.2	280
1000	10×10.2 (8×10.2)	300 (230)	10×10.2	315	10×10.2	340		
1500	10×10.2	315	10×12	350				

WV / mA / 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
4.7							6.3×7.7 8×6.2	35 40
10					6.3×7.7 8×6.2	39 45	8×10.2 (6.3×7.7)	77 (35)
22			6.3×7.7 8×6.2	51 (54)	6.3×7.7	48	10×10.2 (8×10.2)	126 (84)
33	8×6.2	50	6.3×7.7	60	8×10.2 (6.3×7.7)	98 (49)	10×10.2	133
47	6.3×7.7 8×6.2	70 78	8×10.2 (6.3×7.7)	120 (75)	10×10.2 (8×10.2)	160 (119)	10×10.2	140
100	8×10.2 (6.3×7.7)	120 (84)	10×10.2 (8×10.2)	170 (140)	10×10.2	196		
220	10×10.2 (8×10.2)	220 (190)	10×10.2	220				
330	10×10.2	245						
470	10×12	280						

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