

VTD Series

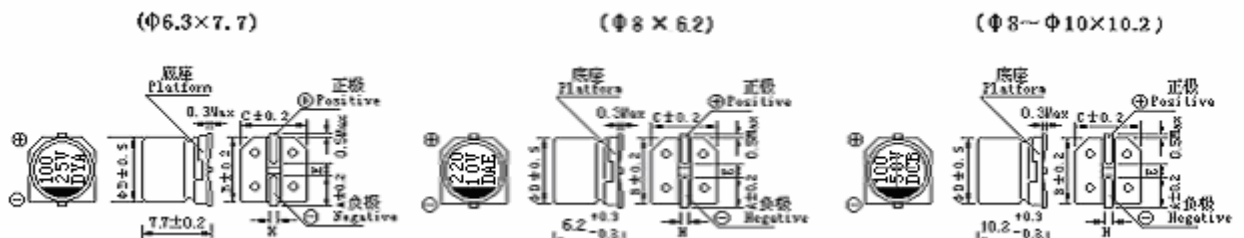
- 寿命: 105°C, 2000 小时 ● 适用于回流焊
- 适用于高密度表面组装 ● 性能稳定、可靠性高
- Lifetime: 105°C, 2000Hr ● Reflow soldering is available
- Available for high density surface mounting ● High stability and reliability



主要技術性能 Specifications

使用溫度範圍 Operating Temperature Range	-55~+105°C											
額定電壓範圍 Rated Voltage Range	6.3~100V DC											
標稱電容量範圍 Nominal Capacitance Range	4.7~1500 μ F											
標稱電容量允許偏差 Capacitance Tolerance (120Hz 20°C)	\pm 20% (120Hz, 20°C)											
漏電流 Leakage Current	$I \leq 0.01 C_R U_R (\mu A)$ 或 $3 \mu A$ 取較大者, (2分鐘) $I \leq 0.01 C_R U_R (\mu A)$ or $3 \mu A$ Whichever is greater (after 2 minutes)											
損耗角正切值 Dissipation Factor (120Hz 20°C)	$U_R(V)$	6.3	10	16	25	35	50	63	100			
	$tg \delta$	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.12			
溫度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	$U_R(V)$	6.3	10	16	25	35	50	63	100			
	$Z_{-25^\circ C} / Z_{+20^\circ C}$	4	3	2	2	2	2	3	3			
	$Z_{-40^\circ C} / Z_{+20^\circ C}$	8	6	4	4	3	3	4	4			
耐久性 Load Life	+105°C 施加額定電壓 2000 小時, 恢復 16 小時後, 電容器應滿足要求 After applying for 2000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.										電容量變化率 Capacitance Change	$\leq \pm 20\%$ 初始值以內 ($\leq 16V$: $\pm 25\%$ 初始值以內) $\leq \pm 20\%$ of Initial measured value (16V: Within $\pm 25\%$ of the initial value)
											漏電流值 Leakage	\leq 初始規定值 \leq Initial specified value
											損耗角正切值 Dissipation Factor	$\leq 200\%$ 初始規定值 $\leq 200\%$ of Initial specified value
高溫貯存 Shelf Life	+105°C, 1000 小時, 恢復 16 小時後, 電容器應滿足下列要求。 After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.										電容量變化率 Capacitance Change	$\leq \pm 20\%$ 初始值以內 $\leq \pm 20\%$ of Initial measured value
											漏電流值 Leakage	\leq 初始規定值 \leq Initial specified value
											損耗角正切值 Dissipation Factor	$\leq 200\%$ 初始規定值 $\leq 200\%$ of Initial specified value
耐焊接熱 Resistance to Soldering Heat	在 250°C 的條件下, 電容器應在熱板上保持 30 秒, 然後從熱板上取出電容器, 讓其在室溫下恢復, 電容器應滿足以下要求: 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.										電容量變化率 Capacitance Change	$\leq \pm 10\%$ 初始值以內 $\leq \pm 10\%$ of Initial measured value
											漏電流值 Leakage	\leq 初始規定值 \leq Initial specified value
											損耗角正切值 Dissipation Factor	\leq 初始規定值 \leq Initial specified value

尺寸及印字 Dimensions & Marking



VTD Series

Mm

	Φ 6.3x7.7	Φ 8x6.2	Φ 8x10.2	Φ 10x10.2
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	0.5~0.8	0.8~1.1		

■ 標稱電容量、額定電壓、額定紋波電流與外形尺寸對應表
Nominal capacitance, rated voltage, rated ripple current and case size table

电压 (V)	6.3		10		16		25	
壳号 μF	DxL mm	105°C mA	DxL mm	105°C mA	DxL mm	105°C mA	DxL mm	105°C mA
100							6.3x7.7 8x6.2	91 105
220	6.3x7.7 8x6.2	105 115	6.3x7.7 8x6.2	110 120	(6.3x7.7) 8x6.2 8x10.2	(105) 125 150	8x10.2	175
330	6.3x7.7 8x6.2	110 120	8x10.2	196	8x10.2	195	10x10.2 (8x10.2)	240 (220)
470	8x10.2	210	8x10.2	210	10x10.2 (8x10.2)	295 (230)	10x10.2	280
1000	10x10.2 (8x10.2)	300 (230)	10x10.2	315	10x10.2	340		
1500	10x10.2	315						

額定紋波電流 Rated ripple current : (mA, 105°C, 120Hz) ;

电压 (V)	35		50		63		100	
壳号 μF	DxL mm	105°C mA	DxL mm	105°C mA	DxL mm	105°C mA	DxL mm	105°C mA
4.7							6.3x7.7 8x6.2	35 40
10					6.3x7.7 8x6.2	39 45	8x10.2 (6.3x7.7)	77 (35)
22			6.3x7.7 8x6.2	51 (54)	8x10.2 (6.3x7.7)	98 (49)	10x10.2 (8x10.2)	126 (84)
33	8x6.2	50	6.3x7.7	60	6.3x7.7	112	10x10.2	133
47	6.3x7.7 8x6.2	70 78	8x10.2 (6.3x7.7)	120 (75)	10x10.2 (8x10.2)	160 (119)	10x10.2	140
100	8x10.2 (6.3x7.7)	120 (84)	10x10.2 (8x10.2)	170 (140)	10x10.2	196		
220	10x10.2 (8x10.2)	220 (190)	10x10.2	220				
330	10x10.2	245						
470	10x10.2	280						

紅字,未打括弧部分為新增規格(8x6.2)
紅字,打括弧部分為縮體規格