

### VT1 Series 片式铝电解电容器 105°C 标准品 Standard of 105°C Aluminum Electrolytic Capacitor of V-chip Type

- 工作温度范围宽(-55°C~+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,符合 RoHS
- Operating over wide temperature range ●Reflow soldering is available
- Available for high density surface mounting High stability and reliability. RoHS Compliance

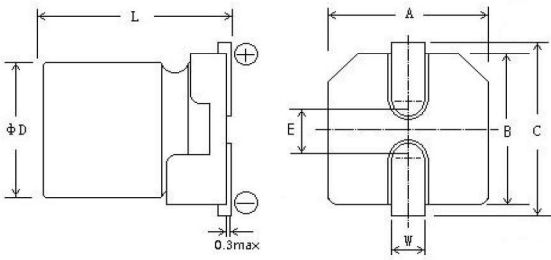


#### ■主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-55~+105°C								
额定电压范围 Rated Voltage Range	6.3~63V DC								
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)								
漏电流(20°C) Leakage Current	$I \leq 0.01CV (\mu A)$ 或 $3 \mu A$ 取较大者, 2 分钟 $I \leq 0.01CV$ or $3\mu A$ whichever is greater (after 2 minutes)								
	I=Leakage Current( $\mu A$ ), C=Capacitance( $\mu F$ ), V=Rated DC Working Voltage(V)								
损耗角正切值(120Hz 20°C) Dissipation Factor	WV	6.3	10	16	25	35	50	63	
	tg $\delta$	0.30	0.22	0.16	0.14	0.12	0.12	0.12	
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	WV	6.3	10	16	25	35	50	63	
	$Z_{-25^\circ C} / Z_{+20^\circ C}$	4	3	2	2	2	2	2	
	$Z_{-40^\circ C} / Z_{+20^\circ C}$	8	6	4	4	3	3	3	
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 rated voltage 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	$\leq \pm 20\%$ 初始测量值 ( $\leq \phi 5$ & $\leq 16V: \pm 30\%$ ) $\leq \pm 20\%$ of Initial measured value ( $\phi 5$ or Smaller & 16V or less: $\pm 30\%$ )							
	漏电流值 Leakage	$\leq$ 规定值 $\leq$ The specified value							
	损耗角正切值 Dissipation Factor	$\leq 2$ 倍规定值 $\leq 200\%$ 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 C5101-4.1 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 Rated voltage	50Hz	120Hz	1KHz	$\geq 10KHz$				
	6.3V~16V	0.80	1	1.15	1.25				
	25V~35V	0.80	1	1.25	1.40				
	50V~63V	0.50	1	1.35	1.50				

## 外形图 Outline Drawing

单位 Unit : mm



尺寸 Size	$\phi 4 \times 5.4$	$\phi 5 \times 5.4$	$\phi 6.3 \times 5.4$
$A \pm 0.2$	4.3	5.3	6.6
$B \pm 0.2$	4.3	5.3	6.6
$D \pm 0.5$	4.0	5.0	6.3
$E \pm 0.2$	1.0	1.3	2.2
$L \pm 0.3$	5.4	5.4	5.4
$C \pm 0.2$	5.0	6.0	7.2
W	0.5~0.9		

## 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 ( $\mu F$ )	6.3V		10V		16V		25V		35V		50V		63V	
	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)	$\Phi D \times L$ (mm)	I (mA)
1.0	-	-	-	-	-	-	-	-	-	-	4×5.4	10	4×5.4	8
2.2	-	-	-	-	-	-	-	-	-	-	4×5.4	16	4×5.4	12
3.3	-	-	-	-	-	-	-	-	-	-	4×5.4	16	5×5.4	15
4.7	-	-	-	-	4×5.4	20	4×5.4	22	4×5.4	22	5×5.4	23	5×5.4	16
6.8	-	-	-	-	-	-	4×5.4	25	-	-	5×5.4	23	-	-
10	-	-	-	-	4×5.4	25	4×5.4 5×5.4	34 40	4×5.4 5×5.4	24 28	5×5.4 6.3×5.4	30 35	6.3×5.4	30
22	4×5.4	26	4×5.4 5×5.4	31 35	4×5.4 5×5.4	34 39	5×5.4 6.3×5.4	46 53	5×5.4 6.3×5.4	48 55	6.3×5.4	59	6.3×5.4	35
33	4×5.4 5×5.4	35 40	4×5.4 5×5.4	38 43	5×5.4 6.3×5.4	48 55	5×5.4 6.3×5.4	57 65	6.3×5.4	72	-	-	-	-
47	4×5.4 5×5.4	40 46	5×5.4 6.3×5.4	64 74	5×5.4 6.3×5.4	60 70	6.3×5.4	80	6.3×5.4	86	-	-	-	-
100	5×5.4 6.3×5.4	62 71	5×5.4 6.3×5.4	82 95	6.3×5.4	105	-	-	-	-	-	-	-	-
220	6.3×5.4	116	6.3×5.4	121	-	-	-	-	-	-	-	-	-	-

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