

#### VT2 Series 片式铝电解电容器 105°C2000 小时产品

#### 105°C2000 hours Lifespan Aluminum Electrolytic Capacitor of V-chip Type

- 工作温度范围宽(-40°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 2000 hours • 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		-40~+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	Rated voltage	6.3~100V		160~450V								
	Time	2 分钟 (after 2 minutes)		5 分钟 (after 5 minutes)								
	Case Size	Φ4~10	Φ12.5~18	Φ12.5~18								
	Leakage Current	≤0.01 CV (μA) 或 3μA 取较大者 ≤0.01 CV or 3μA whichever is greater	≤0.03 CV (μA)或 4μA 取较大者 ≤0.03 CV or 4μA whichever is greater	I=0.04 CV +100μA								
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	
	tg δ	Φ4~10	0.45	0.35	0.28	0.18	0.16	0.14	0.12	0.12	-	-
容量大于 1000 μF 者, 每增加 1000 μF, 其损耗角正切值增加 0.02。 For capacitance exceeding 1000μF, add 0.02 per increment of 1000μF												
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	WV	6.3	10	16	25	35	50	63	100	160~250	400~450	
	Z <sub>-25°C</sub> / Z <sub>+20°C</sub>	Φ<12.5	4	4	3	2	2	2	2	3	-	-
		Φ≥12.5	5	4	3	2	2	2	2	2	3	6
	Z <sub>-40°C</sub> / Z <sub>+20°C</sub>	Φ<12.5	12	8	6	4	3	3	3	4	-	-
	Φ≥12.5	10	8	6	4	3	3	3	3	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 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	≤±25%初始测量值 (ΦD≤6.3) ≤±25% of Initial measured value					≤±20%初始测量值 (ΦD≥8) ≤±20% of Initial measured value					
	漏电流值 Leakage Current	≤规定值 ≤The specified value										
	损耗角正切值 Dissipation Factor	≤3 倍规定值(ΦD≤6.3) ≤300% of the specified value					≤2 倍规定值 (ΦD≥8) ≤200% of the specified value					

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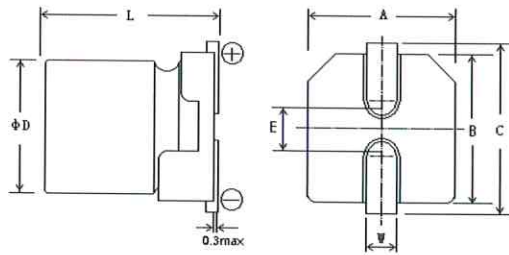
高温贮存  
Shelf Life

+105°C, 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°C 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	≤2 倍规定值 ≤200% of the specified value
损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value

## 外形图及尺寸 Case size table



mm

ΦD	L	A±0.2	B±0.2	C±0.2	E±0.2	W
Φ4	5.8±0.2	4.3	4.3	5.1	1.0	0.5~0.9
Φ5	5.8±0.2	5.3	5.3	6.1	1.3	0.5~0.9
Φ6.3	5.8±0.2	6.6	6.6	7.4	2.2	0.5~0.9
Φ6.3	7.7±0.3	6.6	6.6	7.4	2.2	0.5~0.9
Φ8	10.2±0.5	8.3	8.3	9.1	3.1	0.9~1.1
Φ10	10.2±0.5	10.3	10.3	11.1	4.5	0.9~1.1
Φ12.5	13.5±0.5	13.0	13.0	13.8	5.2	0.8~1.2
Φ12.5	16.5±0.5	13.0	13.0	13.8	5.2	0.8~1.2
Φ16	16.5±0.5	17.0	17.0	18.0	6.5	1.0~1.6
Φ16	21.5±0.5	17.0	17.0	18.0	6.5	1.0~1.6
Φ18	16.5±0.5	19.0	19.0	20.0	6.5	1.0~1.6
Φ18	21.5±0.5	19.0	19.0	20.0	6.5	1.0~1.6

## 纹波电流频率补偿系数 Frequency coefficient of allowable 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



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### ■ 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)	6.3V		10V		16V		25V		35V		50V		63V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	Φ□×L (mm)	I (mA)
1.0											4×5.8	8	4×5.8	8
2.2											4×5.8	12	4×5.8	12
3.3											4×5.8	14	5×5.8	17
4.7							4×5.8	17	4×5.8	17	5×5.8	20	6.3×5.8	22
10					4×5.8	20	4×5.8	20	5×5.8	27	6.3×5.8	32	6.3×5.8	32
22	4×5.8	22	4×5.8	22	5×5.8	30	5×5.8	30	6.3×5.8	44	6.3×5.8	38	6.3×7.7	58
33	5×5.8	34	5×5.8	34	5×5.8	34	6.3×5.8	46	6.3×5.8	46	6.3×7.7	65	8×10.2	140
47	5×5.8	38	5×5.8	38	6.3×5.8	48	6.3×5.8	48	6.3×7.7	80	6.3×7.7	70	8×10.2	170
100	6.3×5.8	69	6.3×5.8	69	6.3×5.8	69	6.3×7.7	100	8×10.2	240	8×10.2	210	10×10.2	310
220	6.3×7.7	120	6.3×7.7	120	6.3×7.7	120	8×10.2 10×10.2	270 320	8×10.2	270	10×10.2	330	12.5×13.5	470
330	8×10.2	290	8×10.2	290	8×10.2 10×10.2	290 320	8×10.2 10×10.2	290 320	10×10.2	370	12.5×13.5	490	16×16.5	650
470	8×10.2	320	8×10.2 10×10.2	320 380	10×10.2	380	10×10.2	380	12.5×13.5	520	12.5×16.5	550	16×16.5	700
1000	10×10.2	410	10×10.2	410	12.5×13.5	550	12.5×13.5 12.5×16.5	400 550	16×16.5	800	18×16.5	800	18×21.5	800
2200	12.5×13.5 16×16.5	680 840	12.5×13.5 12.5×16.5 16×16.5	680 750 850	16×16.5 18×16.5	900 1000	16×16.5 16×21.5 18×16.5	900 1250 1300	18×21.5	1350				
3300	12.5×16.5 18×16.5	850 1000	16×16.5 18×16.5	950 1100	16×16.5 16×21.5 18×16.5	950 1200 1200								
4700	16×16.5 16×21.5 18×16.5	1000 1200 1200	16×16.5 16×21.5 18×21.5	1000 1300 1350										
6800	16×21.5 18×21.5	1200 1350												

WV Cap(μF)	100V		160V		200V		250V		400V		450V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)
3.3							8×10.2	40	10×10.2	37	10×10.2 12.5×13.5	30 40
4.7							8×10.2	45	10×10.2 12.5×13.5	39 45	12.5×13.5	45
10					10×10.2 12.5×13.5	50 80	10×10.2	55	12.5×13.5 12.5×16.5	50 70	12.5×16.5	75
22	8×10.2	100			12.5×13.5 12.5×16.5	105 110	12.5×13.5 12.5×16.5	105 135	16×16.5 18×21.5	85 130	16×16.5 18×21.5	85 130
33	10×10.2	150	12.5×13.5	95	12.5×13.5 12.5×16.5	80 120	16×16.5	180				
47	12.5×13.5	250	16×16.5	240	12.5×16.5 16×16.5	150 220	16×16.5 18×21.5	220 280				
68	12.5×13.5	300	16×16.5 18×16.5	260 320	16×16.5 18×21.5	220 330						
100	12.5×13.5 16×16.5	380 450	16×16.5 16×21.5	250 380								
220	16×16.5 18×16.5	450 750										
330	16×21.5	980										