

**RVT** Wide temperature Standard  
宽温标准品

- Standard type of V-chip, 2000 hours, 105°C.
- Applicable to SMT process.
- RoHS Compliance.
- 105°C 2000hours V-Chip 型标准品。
- 适用于SMT制程。



■ Specifications 特性表

Items 项目	Characteristics 特性							
Capacitance Tolerance 静电容量误差	± 20%(120Hz,20°C)							
Operating Temperature Range 适用温度范围	-40 ~ +105°C							
Rated Voltage Range 额定电压范围	6.3 ~ 100VDC							
Capacitance Range 静电容量范围	0.1 ~ 6800µF							
Leakage Current 漏电流	I ≤ 0.01CV or 3 (µA) , which is greater. ( After 2 minutes application of DC rated voltage, at 20°C)							
Dissipation Factor 损失角正切值 ( tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C							
	Rated Voltage(V)	6.3	10	16	25	35	50	
	tan δ(Max)	0.32	0.28	0.24	0.18	0.15	0.14	
Low Temperature Stability 低温特性	Measurement Frequency: 120Hz.							
	Rated Voltage(V)	6.3	10	16	25	35	50	
	Impedance Ratio(Max) 阻抗比率(最大值)	Z(-25°C)/Z(20°C)	4	3	2	2	2	2
	Z(-55°C)/Z(20°C)	8	8	4	4	3	3	
Load Life 负荷寿命	2000hours,with application of rated voltage at 105°C							
	Capacitance Change	Within ± 20% of Initial Value						
	tan δ	200% or less of Initial Specified Value						
	Leakage Current	Initial Specified Value or less						
Shelf Life 放置寿命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.							
	Capacitance Change	Within ± 20% of Initial Value						
	tan δ	200% or less of Initial Specified Value						
	Leakage Current	Initial Specified Value or less						
Resistance to Soldering Heat 焊锡耐热性	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds.				Capacitance Change	Within ± 10% of Initial Value		
	After removing from the hot plate and restored at room temperature they meet the characteristics requirements listed at right.				tan δ	Initial Specified Value		
					Leakage Current	Initial Specified Value or less		
Marking 标识	Black print on the case top							

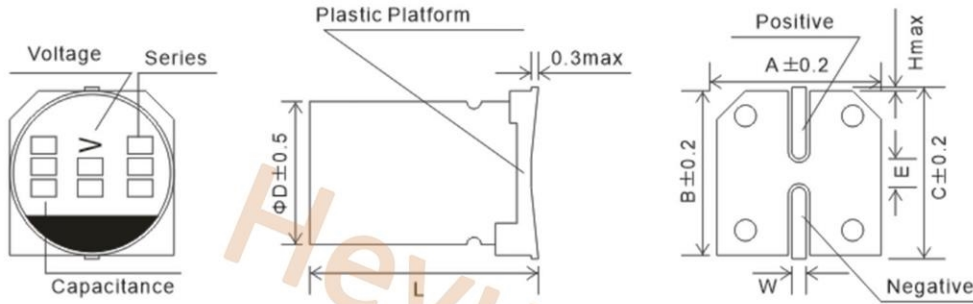
Frequency Coefficient of Permissible Ripple Current

Frequency (Hz)	50	120	300	1K	≥ 10K
Coefficient	0.70	1.00	1.17	1.36	1.50

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use , the rms ripple current has to be reduced.

注：以上所提供的设计及特性参数仅供参考，任何修改不作预先通知，如有使用上任何疑问，请在采购前与我们联系，以便提供技术上的协助。

■ DIMENSIONS(mm) 外形图



Case Size 产品尺寸	Φ4 x 5.4	Φ5 x 5.4	Φ6.3 x 5.4	Φ6.3 x 7.7	Φ8 x 6.5	Φ8 x 10.5	Φ10 x 10.5	Φ12.5 x 13.5	Φ12.5 x 16	Φ16 x 16.5	Φ18 x 16.5
A	4.3	5.3	6.6	6.6	8.3	8.3	10.3	13.0	13.0	17.0	19.0
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	13.0	13.0	17.0	19.0
C	5.0	6.0	7.3	7.3	9.0	9.0	11.0	13.7	13.7	18.0	20.0
E	1.0	1.5	2.0	2.0	3.1	3.1	4.7	4.4	4.4	6.4	6.4
L	5.4±0.3	5.4±0.3	5.4±0.3	7.7±0.3	6.5±0.3	10±0.5	10±0.5	13.5±0.5	16.5±0.5	16.5±0.5	16.5±0.5
W	0.5 ~ 0.8					0.8 ~ 1.1			1.0 ~ 1.4		
H	0.5max.								1.0max.		

■ Standard ratings 标准品一览表

uF	WV	6.3v (0J)		10v (1A)		16v (1C)		25v (1E)		35v (1V)		50v (1H)		63v (1J)		100v (2A)	
		ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.	ΦD x L	R.C.
0.1												4x5.4	0.7	4x5.4	0.7		
0.22												4x5.4	1.6	4x5.4	1.6		
0.33												4x5.4	2.5	4x5.4	2.5		
0.47												4x5.4	3.5	4x5.4	3.5		
1												4x5.4	7	4x5.4	7	4x5.4	7
2.2												4x5.4	11	4x5.4	11	6.3x5.4	14
3.3										4x5.4	13	4x5.4	13	5x5.4	13	6.3x5.4	20
4.7								4x5.4	13	4x5.4	14	4x5.4	13	5x5.4	16	6.3x5.4	21
												5x5.4	16			6.3x7.7	35
10						4x5.4	18	4x5.4	14	4x5.4	14	6.3x5.4	24	6.3x5.4	24	6.3x7.7	35
								5x5.4	20	5x5.4	21			6.3x7.7	39	8x10.5	77
22	4x5.4	22	4x5.4	20	4x5.4	20	5x5.4	25	5x5.4	30	6.3x5.4	42	6.3x7.7	49	8x10.5	84	
			5x5.4	25	5x5.4	27	6.3x5.4	36	6.3x5.4	38	6.3x7.7	51	8x10.5	98	10x10.5	126	
33	4x5.4	22	4x5.4	22	5x5.4	28	5x5.4	29	5x5.4	29	6.3x5.4	42	6.3x7.7	60	8x10.5	112	
	5x5.4	27	5x5.4	30	6.3x5.4	40	6.3x5.4	44								10x10.5	133
47	4x5.4	25			5x5.4	31			6.3x5.4	48	6.3x5.4	50	6.3x7.7	63	8x10.5	119	
	5x5.4	33	5x5.4	30	6.3x5.4	48					6.3x7.7	70	8x10.5	120	10x10.5	160	
																12.5x13.5	250
100	5x5.4	39	5x5.4	45	6.3x5.4	60	6.3x7.7	91	6.3x7.7	84	8x10.5	140	10x10.5	140	10x10.5	195	
	6.3x5.4	50	6.3x5.4	53					8x10.5	120	10x10.5	170	12.5x13.5	270		12.5x13.5	380
150	6.3x5.4	55	6.3x5.4	62	6.3x7.7	95	6.3x7.7	100									
								8x10.5	140	8x10.5	155	10x10.5	170	10x13.5	225	16x16.5	450
220	6.3x5.4	67			6.3x7.7	110				8x10.5	175	8x10.5	190	10x10.5	220	12.5x13.5	470
	6.3x7.7	105	6.3x7.7	105	8x10.5	150	8x10.5	175		10x10.5	220	10x13.5	280	16x16.5	560	16x16.5	550
330	6.3x7.7	105	8x10.5	196	8x10.5	195	8x10.5	220		10x10.5	245	12.5x13.5	420	12.5x16	510	18x16.5	590
								10x10.5	240					12.5x16	600	16x16.5	650
470	6.3x7.7	120	8x10.5	210	8x10.5	230	10x10.5	280		10x13.5	375	12.5x13.5	520	16x16.5	700		
	8x10.5	210	10x10.5	260	10x10.5	295				12.5x13.5	520	16x16.5	700				
680	8x10.5	210	10x10.5	270	10x10.5	315	10x13.5	400		12.5x13.5	530	16x16.5	750				
1000	8x10.5	230			10x13.5	390				12.5x16	600						
	10x10.5	300	10x10.5	315	12.5x13.5	500	12.5x13.5	580		16x16.5	750	18x16.5	860				
1500	10x10.5	315			12.5x13.5	550	12.5x16	750		16x16.5	820						
	10x13.5	450															
2200	10x13.5	500	12.5x13.5	680	12.5x16	750	16x16.5	900		18x16.5	1050						
	12.5x13.5	620			16x16.5	900											
3300	12.5x13.5	660	16x16.5	950	16x16.5	950	18x16.5	1150									
4700	16x16.5	1000	16x16.5	1000	18x16.5	1050											
6800	18x16.5	1150	18x16.5	1150													

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 120Hz. 尺寸 ΦD x L(mm), 纹波电流於 105°C, 120Hz

Note2: Produce custom product too, which are not found in these tables. 客户定制产品在标准品一览表内

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