RVT - VT Series

WIDE TEMPERATURE 宽温品

- Operating with wide temperature range -55 ~ +105°C 適用於 -40 ~ +105°C 的寬溫範圍
- Load life of 1000~2000 hours 負荷壽命 1000~2000 小時
- Comply with the RoHS directive 符合 RoHS 指令



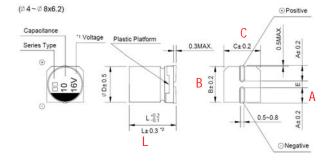






Items 項目				Charact	eristics	主要特	性					
Operation Temperature Range 使用温度範圍	-55 ~ +105°C											
Voltage Range 額定工作電壓範圍	4 ~ 100V											
Capacitance Range 靜電容量範圍	0.1 ~ 6800µF											
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20	°C										
Leakage Current 漏電流	Leakage current (Ø 漏電流 (Ø4~Ø10)	eakage current (∅4~∅10) ≤0.01CV or 3μA, whichever is greater (after 2 minutes application of rated voltage) eakage current (∅12.5~∅16) ≤0.03CV or 4μA, whichever is greater (after 1 minute application of rated voltage) 扁電流 (∅4~∅10) ≤0.01CV 或 3μA,取較大值(施加額定工作電壓 2 分鐘後) 扁電流 (∅12.5~∅16) ≤0.03CV 或 4μA,取較大值(施加額定工作電壓 1 分鐘後)										
	Measurement frequency 測試頻率: 120Hz, Temperature 温度: 20°C											
Dissipation Factor (tan δ)	Rated Voltage (V	,		6.3	10	16	25		5	50	63	100
損耗角正切	tan δ (max.)	Ø4~Ø10		0.26	0.20	0.16			12	0.12	0.12	0.12
	最大損耗角正切	Ø12.5~Ø1	16 0.42	0.38	0.34	0.30	0.26	0.	22	0.18	0.14	0.12
	Measurement frequency 測試頻率: 120Hz											
	Rated V	Rated Voltage (V) 額定工作電壓			4	6.3	10	16	25	35	50~63	100
Stability at Low Temperature	Impedance Ratio	Ø4~Ø10	Z(-25°C) / 2	. ,	7	4	3	2	2	2	2	3
低溫特性	阻抗比	2.2.6	Z(-40°C) / 2	,	15	8	6	4	4	3	3	4
	ZT/Z20 (max.)	Ø12.5~Ø16	Z(-25°C) / 2	, ,	7 17	5 12	4	3	2	2	2	2
			Z(-40°C) / 2	2(20°C)	17	12	10	8	5	4	3	3
	After 2000 hrs. (1000 hrs. for \oslash 4~ \oslash 6.3×5.4) application of the rated voltage at 105°C, they meet the characteristics listed below. 在 105°C 環境中施加額定工作電壓 2000 小時(\oslash 4~ \oslash 6.3×5.4 為 1000 小時)後,電容器的特性符合下表的要求。											
Load Life 高溫負荷特性	Capacitance Char	Within ±20% of initial value for capacitors of 10V or more (Within ±30% of initial value for capacitors of 4V or less) ≥10V 為初始值的±20%以內(≤4V 為初始值的±30%以內)										
	Dissipation Factor			200% or less of initial specified value 不大於規範值的 200%								
	Leakage Current	漏電流		initial spe	cified va	lue or le	ss 不大於	>規範值				
Shelf Life 高溫貯存特性	After leaving capacilisted above. 在10											acteristics
	After reflow solderin 經過回流焊並冷卻至					et the cl	naracteris	tics list	ed belo)W.		
Resistance to Soldering Heat 耐焊接熱特性	Capacitance Char		變化率				alue 初始			内	•	
1 1 20 11 14 14 14 14 14 14 14 14 14 14 14 14	Dissipation Factor						r less 不					
	Leakage Current	漏電 流		initial	specified	value o	r less 不	大 於規筆	D1 <u>自</u>			
Marking 標示	Black print on the c	ase top. 鋁殼	頂部黑字印刷	il .			-			-	-	

□ DRAWING (Unit: mm) 外形圖



Capacitance
Series Type

O 24

D 40

Capacitance

O 30

O 40

O 40

O 50

O 64

O 70

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注:以上所提供的設計及特性參數僅供參考,任何修改不作預先通知。如果在使用上有疑問,請在採購前與我們聯繫,以便提供技術上的協助。

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□ DIMENSIONS (Unit: mm) 尺寸表

ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7	8 x 6.2	8 x 10.5	10 x 10.5	10 x 13.5	12.5 x 13.5	12.5 x 16	16 x 16.5
Α	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
В	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
С	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
E ± 0.2	1.0	1.3	2.2	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

□ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 規格尺寸及最大允許紋波電流

	WV	4	,	6.	3	1	0	1	6	2	25
μF	ode 【代碼	0G		0J		1A		1C		1E	
4.7	4R7									4 × 5.4	13
10	100							4 × 5.4	18	5 × 5.4 (4 × 5.4)	20 (14)
22	220			4 × 5.4	22	5 × 5.4 (4 × 5.4)	25 (20)	5 × 5.4 (4 × 5.4)	27 (20)	6.3 × 5.4 (5 × 5.4)	36 (25)
33	330	5 × 5.4 (4 × 5.4)	30 (18)	5 × 5.4 (4 × 5.4)	27 (22)	5 × 5.4 (4 × 5.4)	30 (22)	6.3 × 5.4 (5 × 5.4)	40 (28)	6.3 × 5.4 (5 × 5.4)	44 (29)
47	470	5 × 5.4 (4 × 5.4)	36 (24)	5 × 5.4 (4 × 5.4)	33 (25)	6.3 × 5.4 (5 × 5.4)	41 (30)	6.3 × 5.4 (5 × 5.4)	48 (31)	6.3 × 5.4 (8 × 6.2)	48 (91)
100	101	6.3 × 5.4 (5 × 5.4)	60 (43)	6.3 × 5.4 (5 × 5.4)	50 (39)	6.3 × 5.4 (8 × 6.2)	53 (110)	6.3 × 5.4 (8 × 6.2)	60 (120)	6.3 × 7.7	91
150	151	6.3 × 5.4	52	6.3 × 5.4	55	6.3 × 5.4	62	6.3 × 7.7	95	8 × 10.5 (6.3 × 7.7)	140 (100)
220	221	6.3 × 5.4	57	6.3 × 7.7 (6.3 × 5.4)	105 (67)	6.3 × 7.7 (8 × 6.2)	105 (105)	8 × 10.5 (6.3 × 7.7) (8 × 6.2)	150 (105) (85)	8 × 10.5	175
330	331	6.3 × 7.7	100	6.3 × 7.7	105	8×10.5	196	8 × 10.5	195	10 × 10.5 (8 × 10.5)	240 (220)
470	471	6.3 × 7.7	105	8 × 10.5 (6.3 x 7.7)	210 (120)	10 × 10.5 (8 × 10.5)	260 (210)	10 × 10.5 (8 × 10.5)	295 (230)	10 × 10.5	280
680	681	8 × 10.5	210	8 × 10.5	210	10 × 10.5	270	10 × 10.5	315	10 × 13.5	400
1000	102	8 × 10.5	230	10 × 10.5 (8 × 10.5)	300 (230)	10 × 10.5	315	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	500 (390) (340)	12.5 × 13.5	580
1500	152	10 × 10.5	315	10 × 13.5 (10 × 10.5)	450 (315)	10 × 13.5	460	12.5 × 13.5	550	12.5 × 16	850
2200	222	10 × 13.5 (10 × 10.5)	440 (340)	12.5 × 13.5 (10 × 13.5)	620 (500)	12.5 × 13.5	680	16 × 16.5 (12.5 × 16)	950 (750)	16 × 16.5	1050
3300	332	10 × 13.5	490	12.5 × 16 (12.5 × 13.5)	700 (660)	16 × 16.5	1000	16 × 16.5	1000		
4700	472	12.5 × 13.5	600	16 × 16.5	1000					Case size	Ripple current
6800	682	16 × 16.5 (12.5 × 16)	950 (650)							尺寸	紋波電流

	WV ode	35		5	0		63	100		
μF	Ode 代碼	1V	1V		1H		1J	2A		
0.1	0R1			4 × 5.4	0.7	4 × 5.4	0.7			
0.22	R22			4 × 5.4	1.6	4 × 5.4	1.6			
0.33	R33			4 × 5.4	2.5	4 × 5.4	2.5			
0.47	R47			4 × 5.4	3.5	4 × 5.4	3.5			
1	010			4 × 5.4	7	4 × 5.4	7	4 × 5.4	7	
2.2	2R2			4 × 5.4	11	4 × 5.4	11	6.3 × 5.4	14	
3.3	3R3	4 × 5.4	13	4 × 5.4	13	5 × 5.4	13	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	32 (20) (30)	
4.7	4R7	4 × 5.4	14	5 × 5.4 (4 × 5.4)	16 (13)	5 × 5.4	16	6.3 × 7.7 (6.3 × 5.4)	35 (21)	
10	100	5 × 5.4 (4 × 5.4)	21 (14)	6.3 × 5.4	24	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	39 (24) (25)	8 × 10.5 (6.3 × 7.7)	77 (35)	
22	220	6.3 × 5.4	38	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	51 (42) (70)	8 × 10.5 (6.3 × 7.7)	98 (49)	10 × 10.5 (8 × 10.5)	126 (84)	
33	330	6.3 × 5.4 (8 × 6.2)	42 (84)	6.3 × 7.7	60	8 × 10.5	112	10 × 10.5	133	
47	470	6.3 × 7.7 (6.3 × 5.4)	70 (50)	8 × 10.5 (6.3 × 7.7)	120 (63)	10 × 10.5 (8 × 10.5)	160 (119)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	250 (160) (140)	
68	680					Case size 尺寸	Ripple current 紋波電流	12.5 x 13.5 (10 x 13.5)	300 (180)	

•Case size ØD×L(mm), ripple current (mA rms) at 105°C 120Hz ●尺寸ØD×L(mm), 絞波電流(mA rms)於 105°C 120Hz

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WV Code		35		50		6	3	100		
μF	ode 代碼	1V		1H		1.	J	2A		
100	101	8 × 10.5 (6.3 × 7.7)	120 (84)	10 × 10.5 (8 × 10.5)	170 (140)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	270 (210) (196)	16 × 16.5 (12.5 x 13.5)	450 (380)	
150	151	8 × 10.5	155	10 × 10.5	170	10 × 13.5	225			
220	221	10 × 10.5 (8 × 10.5)	220 (190)	10 × 13.5 (10 × 10.5)	280 (220)	16 × 16.5 (12.5 × 13.5) (10 x 13.5)	560 (470) (235)	16 × 16.5	550	
330	331	10 × 10.5	245	16 × 16.5 (12.5 × 13.5) (10 x 13.5)	600 (420) (295)	16 × 16.5 (12.5 × 16)	700 (510)			
470	471	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	520 (375) (280)	16 × 16.5 (12.5 × 16)	700 (520)	16 × 16.5	750			
680	681	12.5 × 13.5 (10 × 13.5)	530 (395)	16 × 16.5	750		· · · · · · · · · · · · · · · · · · ·	Case size	Ripple current	
1000	102	16 × 16.5 (12.5 × 16)	750 (600)					尺寸	紋波電流	

[◆]Case size ⊘D×L(mm), ripple current (mA rms) at 105°C 120Hz ◆尺寸⊘D×L(mm), 紋波電流(mA rms)於 105°C 120Hz

□ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 紋波電流頻率補償系數

	Frequency 步	頁率	50Hz	120Hz	300Hz	1KHz	10KHz~
	Ø4 ~ Ø10	0.1 ~ 68μF	0.70	1.00	1.17	1.36	1.50
	24~210	100 ~ 3300μF	0.85	1.00	1.08	1.20	1.30
Coefficient 系數		~ 68µF	0.75	1.00	1.35	1.57	2.00
	Ø12.5 ~ Ø16	100 ~ 680μF	0.80	1.00	1.23	1.34	1.50
		1000 ~ 6800μF	0.85	1.00	1.10	1.13	1.15

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