

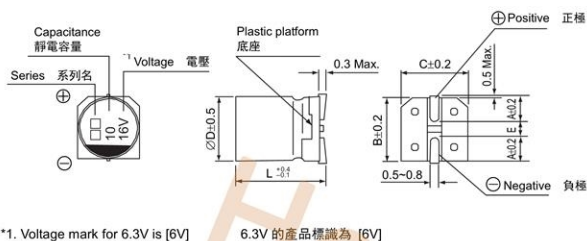
RVN Series

- Non-polarized with wide temperature range -55°C~+105°C
無極性和適用於 -55°C~+105°C 的寬溫範圍
- Load life of 1000 hours
負荷壽命 1000 小時
- RoHS & REACH compliant, Halogen-free
符合 RoHS 與 REACH, 無鹵

SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性					
Operation Temperature Range 使用溫度範圍	-55 ~ +105°C					
Voltage Range 額定工作電壓範圍	6.3 ~ 50V					
Capacitance Range 靜電容量範圍	0.1 ~ 47μF					
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C					
Leakage Current 漏電流	Leakage current ≤0.05CV or 10μA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤0.05CV 或 10μA, 取較大值 (在 20°C 環境中施加額定工作電壓 2 分鐘後) C: Nominal capacitance (μF) 標稱靜電容量, V: Rated voltage (V) 額定電壓					
Dissipation Factor (tan δ) 損耗角正切	Measurement frequency 測試頻率: 120Hz, Temperature 溫度: 20°C					
	Rated Voltage (V) 額定工作電壓	6.3	10	16, 25	35, 50	
	tan δ (max.) 最大損耗角正切	0.24	0.20	0.17	0.15	
Stability at Low Temperature 低溫特性	Measurement frequency 測試頻率: 120Hz					
	Rated Voltage (V) 額定工作電壓	6.3	10	16, 25	35, 50	
	Impedance Ratio 阻抗比	Z(-25°C) / Z(20°C)	4	3	2	2
	ZT/Z20 (max.)	Z(-55°C) / Z(20°C)	8	6	4	3
Load Life 高溫負荷特性	After 1000 hours application of the rated voltage at 105°C (the polarity needs to exchange every 250 hours), they meet the characteristics listed below. 在 105°C 環境中施加額定工作電壓 1000 小時 (每 250 小時必須轉換一次極性) 後, 電容器的特性符合下表的要求。					
	Capacitance Change 靜電容量變化率	Within ±20% of initial value 初始值的±20%以內				
	Dissipation Factor 損耗角正切	200% or less of initial specified value 不大於規範值的 200%				
	Leakage Current 漏電流	initial specified value or less 不大於規範值				
Shelf Life 高溫貯存特性	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above. 在 105°C 環境中無負荷放置 1000 小時後, 電容器的特性符合高溫負荷特性中所列的規定值。					
Resistance to Soldering Heat 耐焊接熱特性 (Please refer page 23 for soldering conditions) (焊接條件請查閱第 23 頁)	After reflow soldering and restored at room temperature, they meet the characteristics listed below. 經過回流焊並冷卻至室溫後, 電容器的特性符合下表的要求。					
	Capacitance Change 靜電容量變化率	Within ±10% of initial value 初始值的±10%以內				
	Dissipation Factor 損耗角正切	initial specified value or less 不大於規範值				
	Leakage Current 漏電流	initial specified value or less 不大於規範值				
Marking 標識	Black print on the case top. 鋁殼頂部黑字印刷。					

DRAWING 外形圖 (Unit: mm)



DIMENSIONS (Unit: mm) 尺寸表

	6.3 x 5.4		
A	2.0	2.2	2.6
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E ± 0.2	1.0	1.4	1.9
L	5.4	5.4	5.4

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。

Dongguan Heyue Electronic Co., Ltd.

www.heyuecap.com

When long life performance is required in actual use, the rms ripple current has to be reduced. Heyuecap

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

WV Code μF 代碼	6.3		10		16		25		35		50	
	0J		1A		1C		1E		1V		1H	
0.1 0R1											4 × 5.4	1.0
0.22 R22											4 × 5.4	2.0
0.33 R33											4 × 5.4	2.8
0.47 R47											4 × 5.4	4.0
1 010											4 × 5.4	8.4
2.2 2R2									4 × 5.4	8.4	5 × 5.4	13
3.3 3R3							5 × 5.4	12	5 × 5.4	16	5 × 5.4	17
4.7 4R7					4 × 5.4	12	5 × 5.4	16	5 × 5.4	18	6.3 × 5.4	20
10 100			4 × 5.4	17	5 × 5.4	23	6.3 × 5.4	27	6.3 × 5.4	29		
22 220	5 × 5.4	28	6.3 × 5.4	33	6.3 × 5.4	37						
33 330	6.3 × 5.4	37	6.3 × 5.4	41	6.3 × 5.4	49					Case size 尺寸	Ripple current 紋波電流
47 470	6.3 × 5.4	45										

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C, 120Hz •尺寸 $\varnothing D \times L$ (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 頻率					10KHz~
Coefficient 系數	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 5~10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced. 鋁電解電容器在疊加紋波電流後會引起發熱，溫度每上升 5~10°C 壽命會減半。若要保持長壽命性能，請在使用過程中適當降低紋波電流。

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，如有使用上任何疑問，請在採購前與我們聯繫，以便提供技術上的協助。

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