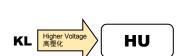
HU Series

CHIP TYPE, HIGH VOLTAGE, LONG LIFE 貼片式, 高壓長壽命品

- Operating with wide temperature range -40~+105°C 適用於 -40~+105°C 的寬溫範圍
- Load life of 5000 hours 負荷壽命 5000 小時
- RoHS & REACH compliant, Halogen-free 符合 RoHS 與 REACH,無鹵

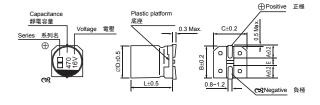




O SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性							
Operation Temperature Range 使用温度範圍	-40 ~ +105°C							
Voltage Range 額定工作電壓範圍	160 ~ 450V							
Capacitance Range 靜電容量範圍	3.3 ~ 47μF							
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C							
Leakage Current 漏電流	Leakage current ≤0.04CV + 100μA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤0.04CV + 100μA,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							
Binding Ford (400 B)	Measurement frequency 測試頻率: 120Hz, Temperature 温度: 20°C							
Dissipation Factor (tan δ) 損耗角正切	Rated Voltage (V) 額定工作電壓		160 ~ 250		400, 500			
1只不し用 正 列	tan δ (max.) 最大損耗角正切	0.15			0.20			
Stability at Low Temperature 低溫特性	Measurement frequency 測試頻率: 120Hz Rated Voltage (V) 額定工作電壓 Impedance Ratio 阻抗比 Z(-25°C) / Z(2 ZT/Z20 (max.) Z(-40°C) / Z(2		,		400, 500 6 10			
Load Life 高溫負荷特性	After 5000 hours 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 5000 小時後,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 Dissipation Factor 損耗角正切 Leakage Current 漏電流 Within ±10% of initial value 初始值的±10%以内 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)



● A pressure relief vent is attached to products over ØD=12.5 ØD=12.5 以上產品有緩壓防爆閥

● DIMENSIONS (Unit: mm) 尺寸表

ØD x L	8 x 12.5	10 x 10.5/13.5	12.5 x 13.5	12.5 x 16
Α	3.0	3.3	4.9	4.9
В	8.4	10.4	13.0	13.0
С	8.4	10.4	13.0	13.0
E ± 0.2	3.1	4.7	4.7	4.7
L	12.5	13.5	13.5	16.0

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

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。



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

WV Code 代碼		160 2C		200 2D		250 2E		400 2G		450 2W	
4.7	4R7					10 × 10.5	65	8 × 12.5 (10 × 10.5) (10 × 13.5)	45 (48) (50)	10 × 13.5	50
6.8	6R8					10 × 10.5	70	10 × 10.5 (10 × 13.5)	45 (60)	10 × 13.5	50
10	100			10 × 10.5 (10 × 13.5)	70 (80)	10 × 13.5	105	10 × 13.5 (12.5 × 13.5)	65 (85)	12.5 × 13.5	85
22	220	12.5 × 13.5	85	10 × 13.5 (12.5 × 13.5)	95 (110)	12.5 × 13.5 (12.5 × 16)	120 (180)	16 × 16.5	95		
33	330	12.5 × 13.5	95	12.5 × 16	220					Cano nizo	Ripple
47	470	12.5 × 13.5 (12.5 × 16)	110 (260)							Case size 尺寸	current 紋波電流

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

Frequency 頻率	50Hz	120Hz	300Hz	1KHz	10KHz~
Coefficient 系數	0.80	1.00	1.25	1.40	1.60

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.
纪智斯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。