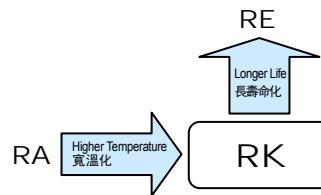


RK Series

WIDE TEMPERATURE 寬溫品



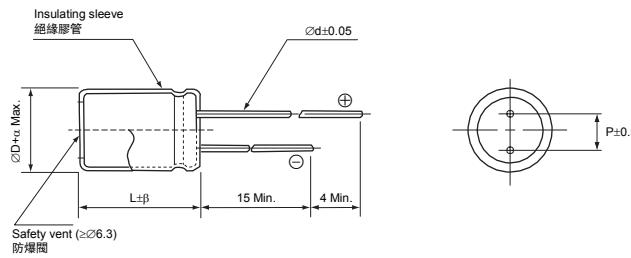
- Wide temperature range of -40~+105°C 適用於 -40~+105°C 的寬溫範圍
- Standard series for general purposes 標準品通用型
- Load life of 2000 hours at 105°C 在 105°C 環境中負荷壽命 2000 小時
- Comply with the RoHS & REACH 符合 RoHS 與 REACH



□ SPECIFICATIONS 特性表

Items 項目	Characteristics 主要特性																		
Operation Temperature Range 使用溫度範圍	-40 ~ +105°C								-25 ~ +105°C										
Voltage Range 額定工作電壓範圍	6.3 ~ 100V								160 ~ 450V										
Capacitance Range 靜電容量範圍	0.47 ~ 15000μF								0.47 ~ 470μF										
Capacitance Tolerance 靜電容量允許偏差	±20% at 120Hz, 20°C																		
Leakage Current 漏電流	Leakage current ≤ 0.01CV or 3μA, whichever is greater (after 2 minutes application of rated voltage at 20°C) 漏電流 ≤ 0.01CV 或 3μA, 取較大值 (在 20°C 環境中施加額定工作電壓 2 分鐘後)					Leakage current ≤ 0.02CV + 15μA (after 5 minutes application of rated voltage at 20°C) 漏電流 ≤ 0.02CV + 15μA (在 20°C 環境中施加額定工作電壓 5 分鐘後)													
Dissipation Factor (tan δ) 損耗角正切	C: Nominal capacitance (μF) 標稱靜電容量, V: Rated voltage (V) 額定電壓 When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. 當標稱靜電容量大於 1000μF, 其標稱靜電容量每增加 1000μF, 損耗角正切增加 0.02. Measurement frequency 測試頻率: 120Hz, Temperature 測試溫度: 20°C																		
Stability at Low Temperature 低溫特性	Rated Voltage (V) 額定工作電壓	6.3	10	16	25	35	50	63	100	160~250	350~450								
	tan δ (max.) 最大損耗角正切	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20								
	Impedance Ratio 阻抗比	Z(-25°C) / Z(20°C)	4	3	2	2	3	8	—	—	—								
	Z(-40°C) / Z(20°C)	8	6	4	3	4	—	—	—	—	—								
Load Life 高溫負荷特性	After 2000 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 2000 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 measured value 初始值的±20% 以內																	
	Dissipation Factor 損耗角正切	≤200% of initial specified value 不大於規範值的 200%																	
	Leakage Current 漏電流	≤initial specified value 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。																		
Marking 標識	Printed with white colour on black sleeve (PVC) or printed with white colour on green sleeve (PET). 黑色膠管白字印刷 (PVC) 或綠色膠管白字印刷 (PET)。																		

□ DRAWING 外形圖 (Unit: mm)



ØD	5	6.3	8 (L≤11.5)	8 (L≥16)	10	13	16	18	22	25
P	2.0	2.5	3.5		5.0		7.5	10.0	12.5	
Ød				0.6				0.8		
β				1.5				2.0		
α					0.5				1.0	

□ 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	0.47 ~ 47μF	0.75	1.00	1.35	1.55	2.00
	68 ~ 680μF	0.80	1.00	1.25	1.34	1.50
	1000 ~ 15000μF	0.85	1.00	1.10	1.13	1.15

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。

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。

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