

RU Series

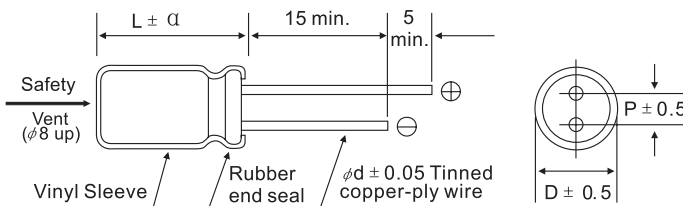


- Ultra Low ESR
- Enabled high ripple current by a reduction of ESR at high frequency range.
- RoHS Compliant

■ 規格表 SPECIFICATIONS

項目 Items	特性參數 Characteristics			
使用溫度範圍 Category Temperature Range	-40 ~ +105°C			
額定工作電壓範圍 Rated Voltage Range	6.3 ~ 16V			
靜電容量允許偏差 Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)			
漏電流 Leakage Current	I ≤ 0.03CV or 10 μA. Which is greater after application of rated Voltage for 2 minutes. 施工作電壓2分鐘後讀數,二者取大值. I:漏電流 (μA)、C: 靜電容量 (μF)、額定電壓 (V)			
損耗角正切值 tan δ Dissipation Factor	Rated voltage(V)	6.3	10	16
	tan δ (Max.)	0.22	0.19	0.16
(at 20°C, 120Hz)				
標稱容量超過 1000 μF, 則每增加 1000 μF, 損耗角正切值增加 0.02 When nominal capacitance exceeds 1000 μF, add 0.02 to the value above for each 1000 μF increase. (at 20°C, 120Hz)				
低溫特性 Low temperature Characteristics (Max. Impedance Ratio)	電容器低溫阻抗比值, 不應超過下表所列出的值			
	Rated voltage(V)	6.3	10	16
	Z(-25°C)/Z(+20°C)	4	3	2
	Z(-40°C)/Z(+20°C)	10	8	6
(at 20°C, 120Hz)				
耐久性 Endurance	105°C 施加額定工作電壓和額定紋波電流 2000 小時, 恢復到 20°C 後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after application of rated voltage with rated ripple current for 2000 hours at 105°C.			
	Capacitance change	≅ ±25% of the initial value		
	D.F.(tan δ)	≅ 200% of the specified value		
	Leakage current	≅ The specified value		
高溫儲存特性 Shelf Life	105°C 放置 500 小時, 恢復到 20°C 後, 產品性能應滿足以下要求 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 105°C without voltage applied.			
	Capacitance change	≅ ±25% of the initial value		
	D.F.(tan δ)	≅ 200% of the specified value		
	Leakage current	≅ The specified value		

■ 外形圖 DIMENSIONS (mm)



ΦD	5	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.5	0.5	0.6

α	(L < 20) 1.5
	(L ≥ 20) 2.0

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■ 尺寸與最大紋波電流一覽表 STANDARD RATINGS

Rated voltage 6.3(0J)			
Rated capacitance (μ F)	Size Φ D×L(mm)	Rated ripple current (mArms) at 105°C,100KHz	Impedance (m Ω max.) at 20°C,100KHz)
820	8×12	1,335	22
1,200	8×16	1,845	20
1,800	8×20	2,340	13
1,500	10×13	1,950	16
1,800	10×16	2,450	12
2,200	10×20	2,765	12
3,300	10×25	3,220	10

Rated voltage 10(1A)			
Rated capacitance (μ F)	Size Φ D×L(mm)	Rated ripple current (mArms) at 105°C,100KHz)	Impedance (m Ω max.) at 20°C,100KHz)
680	8×12	1,330	22
1,000	8×16	1,840	20
1,500	8×20	2,340	13
1,000	10×13	1,950	16
1,500	10×16	2,450	12
1,800	10×20	2,750	12
2,200	10×25	3,210	10

Rated voltage 16(1C)			
Rated capacitance (μ F)	Size Φ D×L(mm)	Rated ripple current (mArms) at 105°C,100KHz)	Impedance (m Ω max.) at 20°C,100KHz)
470	8×12	1,320	22
680	8×16	1,840	20
1000	8×20	2,340	13
680	10×13	1,950	16
1,000	10×16	2,440	12
1,500	10×20	2,750	10
1,800	10×25	3,210	9

■ 紋波電流補正係數 RATED RIPPLE CURRENT COEFFICIENT

● 頻率係數 Frequency Coefficient

Capacitance(μ F)	Frequency(Hz)	120	1k	10k	100k
6.8 ~ 180		0.40	0.75	0.90	1.00
220 ~ 560		0.50	0.85	0.94	1.00
680 ~ 1,800		0.60	0.87	0.95	1.00
2,200 ~ 3,900		0.75	0.90	0.95	1.00
4,700 ~ 6,800		0.85	0.95	0.98	1.00