

# HU series

- 105°C 10000 hours, miniaturized and long life.
- RoHS Compliance
- 105°C 10000小時小型化長壽命品。



## SPECIFICATIONS

Items 項目	Characteristics 特性								
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz, 20°C)								
Operating Temperature Range 適用溫度範圍	- 25 ~ +105°C								
Rated Voltage Range 額定電壓範圍	10 ~ 100VDC								
Leakage Current 洩漏電流	$I \leq 0.01CV$ or 3(μA) which is greater.( After 2 minutes application of DC rated voltage, at 20°C)								
Dissipation Factor 散逸因素( tan δ)	Measurement Frequency:120Hz. Temperature: 20°C								
	Rated Voltage(V)	6.3	10	16	25	35	50	63	100
	tanδ(MAX)	0.45	0.45	0.35	0.3	0.22	0.19	0.17	0.15
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency:120Hz								
	Rated Voltage(V)	10	16	25	35	50	63	100	
	Z(-25°C) / Z(20°C)	8	6	4	4	3	3	3	
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 10,000 hours at 105°C.								
	Capacitance Change	within ±25% of Initial Value							
	tan δ	300% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000hours 105°C without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4.								
	Capacitance Change	within ±25% of Initial Value							
	tan δ	300% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Standards 參照標準	JIS C 5101-4-1 (IEC 60384)								

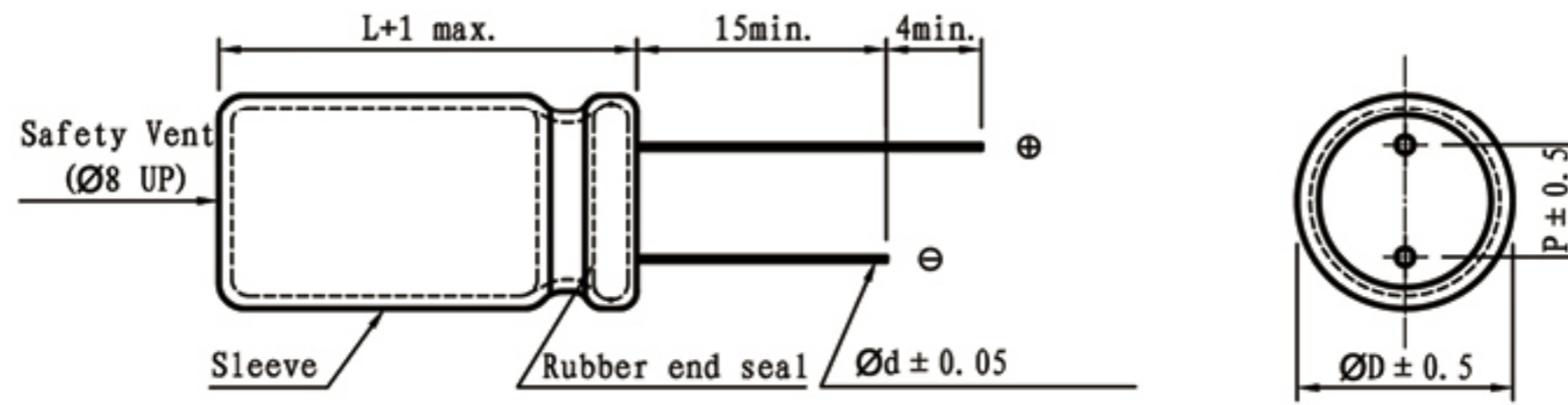
## Frequency Coefficient of Permissible Ripple Current

Rated Voltage (V)	Capacitance (μF)	Frequency (Hz)			
		120	1K	10K	100K
10~100	0.47~10	0.42	0.60	0.80	1.00
	22~33	0.55	0.75	0.90	1.00
	47~330	0.70	0.85	0.95	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise.when long life performance is required in actual use. The rms ripple current has to be reduced.

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**DIMENSIONS(mm)**



$\phi D$	5	6.3	8
P	2.0	2.5	3.5
$\phi d$	0.5	0.5	0.5

**STANDARD RATINGS**

D×L(mm) ; R.C.(mA rms) at 105°C 100KHz.

Cap ( $\mu F$ )	V Item	10		16		25		35		50		63		100	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.47										5x12	12			5x12	20
1										5x12	25			5x12	40
2.2										5x12	35			5x12	50
3.3										5x12	70			5x12	60
4.7										5x12	80			5x12	70
10										5x12	90	5x12	80	6.3x12	150
22										5x12	120	6.3x12	170	8x12	230
33						5x12	124	5x12	130	6.3x12	190	6.3x12	170		
47				5x12	130	5x12	157	6.3x12	210	6.3x12	190	8x12	240		
100		5x12	130	6.3x12	210	6.3x12	210	8x12	330	8x12	270				
220		6.3x12	210	8x12	330										
330		8x12	330												

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