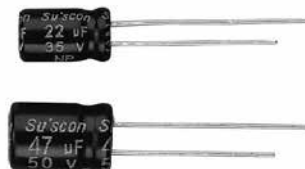


# HU series

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- 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<br>靜電容量誤差                                        | ± 20%(120Hz, 20°C)                                                                                                                                                                                                                                                                   |      |      |     |                                         |      |      |      |
| Operating Temperature Range<br>適用溫度範圍                                  | - 25 ~ +105°C                                                                                                                                                                                                                                                                        |      |      |     |                                         |      |      |      |
| Rated Voltage Range<br>額定電壓範圍                                          | 10 ~ 100VDC                                                                                                                                                                                                                                                                          |      |      |     |                                         |      |      |      |
| Leakage Current<br>洩漏電流                                                | I ≤ 0.01CV or 3(μA) which is greater.( After 2 minutes application of DC rated voltage, at 20°C)                                                                                                                                                                                     |      |      |     |                                         |      |      |      |
| Dissipation Factor<br>散逸因素( tan δ)                                     | Measurement Frequency:120Hz. Temperature: 20°C                                                                                                                                                                                                                                       |      |      |     |                                         |      |      |      |
|                                                                        | Rated Voltage(V)                                                                                                                                                                                                                                                                     | 10   | 16   | 26  | 35                                      | 50   | 63   | 100  |
|                                                                        | tanδ(MAX)                                                                                                                                                                                                                                                                            | 0.45 | 0.35 | 0.3 | 0.22                                    | 0.19 | 0.17 | 0.15 |
| Low Temperature Stability<br>低溫特性<br>Impedance Ratio(Max)<br>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                                                         | IEC 60384-4 (JIS C 5101-4 )                                                                                                                                                                                                                                                          |      |      |     |                                         |      |      |      |

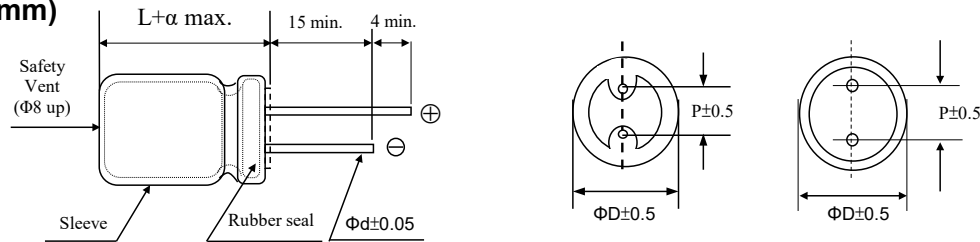
## Frequency Coefficient of Permissible Ripple Current

| Rated Voltage (V) | Capacitance ( $\mu F$ ) | 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 |

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DIMENSIONS(mm)



|    |     |     |     |
|----|-----|-----|-----|
| ΦD | 5   | 6.3 | 8   |
| P  | 2.0 | 2.5 | 3.5 |
| Φd | 0.5 | 0.5 | 0.5 |

|          |              |
|----------|--------------|
| $\alpha$ | (L < 20) 1.5 |
|----------|--------------|

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 105°C 100kHz.

| Cap<br>(μF) | V    | 10     |      | 16     |      | 25     |      | 35     |      | 50     |      | 63     |      | 100    |      |
|-------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
|             | Item | 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        |      |        |      |        |      |        |      |        |      | 5x11   | 12   |        |      | 5x11   | 20   |
| 1           |      |        |      |        |      |        |      |        |      | 5x11   | 25   |        |      | 5x11   | 40   |
| 2.2         |      |        |      |        |      |        |      |        |      | 5x11   | 35   |        |      | 5x11   | 50   |
| 3.3         |      |        |      |        |      |        |      |        |      | 5x11   | 70   |        |      | 5x11   | 60   |
| 4.7         |      |        |      |        |      |        |      |        |      | 5x11   | 80   |        |      | 5x11   | 70   |
| 10          |      |        |      |        |      |        |      |        |      | 5x11   | 80   | 5x11   | 80   | 6.3x11 | 150  |
| 22          |      |        |      |        |      |        |      |        |      | 5x11   | 110  | 6.3x11 | 170  | 8x11.5 | 230  |
| 33          |      |        |      |        |      | 5x11   | 130  | 5x11   | 130  | 6.3x11 | 190  | 6.3x11 | 170  |        |      |
| 47          |      |        |      | 5x11   | 130  | 5x11   | 157  | 6.3x11 | 210  | 6.3x11 | 190  | 8x11.5 | 240  |        |      |
| 100         |      | 5x11   | 130  | 6.3x11 | 210  | 6.3x11 | 210  | 8x11.5 | 330  | 8x11.5 | 270  |        |      |        |      |
| 220         |      | 6.3x11 | 210  | 8x11.5 | 330  |        |      |        |      |        |      |        |      |        |      |
| 330         |      | 8x11.5 | 330  |        |      |        |      |        |      |        |      |        |      |        |      |

HU