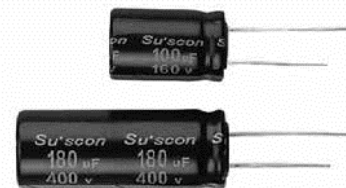


# SKA series

- On the basis of SK series ripple promotion product.
- Suitable for LCD TV Power, SMPS.
- RoHS Compliance.
- SK系列紋波提升品。
- 適用於液晶顯示電源及開關電源等。



## SPECIFICATIONS

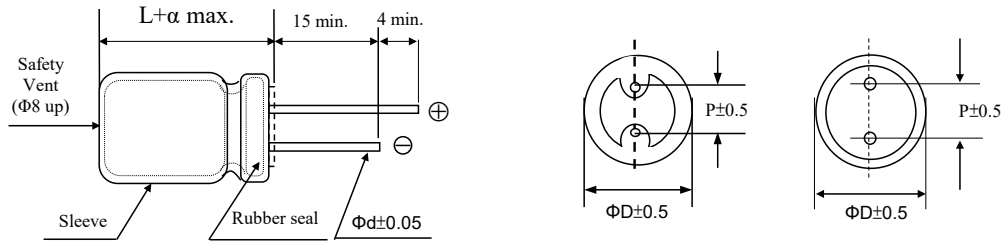
| Items 項目   | Characteristics 特性  |   |      |              |      |
|--|---|---|------|--------------|------|
| Capacitance Tolerance<br>靜電容量誤差  | ± 20%(120Hz,20°C)   |   |      |              |      |
| Operating Temperature Range<br>適用溫度範圍                                  | -40 ~ +105°C  |   |      | -25 ~ +105°C |      |
| Rated Voltage Range<br>額定電壓範圍  | 400VDC  |   |      | 450 ~ 500VDC |      |
| Leakage Current<br>洩漏電流  | $I \leq 0.03CV + 20 (\mu A)$ ( After 3 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)  | 400                                     | 450  | 460          | 500  |
|  | tan δ(Max)  | 0.15                                    | 0.20 | 0.20         | 0.20 |
|  | When nominal capacitance over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF .  |   |      |              |      |
| 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)  | 400                                     | 450  | 460          | 500  |
|  | Z(-25°C)/Z(20°C)  | 3                                       | 3    | 6            | 6    |
|  | Z(-40°C)/Z(20°C)  | 6                                       | -    | -            | -    |
| 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 2,000 hours at 105°C.   |   |      |              |      |
|  | Capacitance Change  | Within ± 20% of Initial Value           |      |              |      |
|  | tan δ   | 200% 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 1,000 hours 105°C without voltage applied. Before the measurement. The capacitor shall be preconditioned by applying voltage according to them 4.1 of JIS C5101-4. |   |      |              |      |
|  | Capacitance Change  | Within ± 20% of Initial Value           |      |              |      |
|  | tan δ   | 200% 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

| Capacitance (µF) | Frequency (Hz) |      |      |      |      |
|------------------|----------------|------|------|------|------|
|                  | 120            | 10K  | 30K  | 50K  | 100K |
| 10 ~ 150         | 1.00           | 1.50 | 1.60 | 1.75 | 2.00 |

# SKA series

## DIMENSIONS(mm)



|          |     |      |     |     |      |      |
|----------|-----|------|-----|-----|------|------|
| $\Phi D$ | 10  | 12.5 | 16  | 18  | 20   | 22   |
| P        | 5.0 | 5.0  | 7.5 | 7.5 | 10.0 | 10.0 |
| $\Phi d$ | 0.6 | 0.6  | 0.8 | 0.8 | 0.8  | 0.8  |

|          |                   |
|----------|-------------------|
| $\alpha$ | $(L < 20)$ 1.5    |
|          | $(L \geq 20)$ 2.0 |

## STANDARD RATINGS

D×L(mm) ; R.C.(mA rms) at 105°C 120Hz.

| Cap<br>( $\mu F$ ) | V | 400     |       |       |         | 450   |       |         |       | 460   |         |       |       | 500    |  |  |  |
|--------------------|---|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|--------|--|--|--|
|                    |   | Item    | D x L | R.C.  |         | D x L | R.C.  |         | D x L | R.C.  |         | D x L | R.C.  |        |  |  |  |
|                    |   |         |       | 120Hz | 100kHz  |       | 120Hz | 100kHz  |       | 120Hz | 100kHz  |       | 120Hz | 100kHz |  |  |  |
| 10                 |   | 10x16   | 100   | 200   | 10x20   | 130   | 260   | 10x20   | 120   | 240   | 12.5x20 | 78    | 156   |        |  |  |  |
| 15                 |   | 10x20   | 200   | 400   | 12.5x20 | 200   | 400   | 12.5x20 | 150   | 300   | 12.5x20 | 100   | 200   |        |  |  |  |
| 22                 |   | 12.5x20 | 280   | 560   | 12.5x20 | 300   | 600   | 12.5x25 | 300   | 600   | 12.5x25 | 190   | 380   |        |  |  |  |
| 33                 |   | 12.5x20 | 330   | 660   | 12.5x25 | 400   | 800   | 16x25   | 400   | 800   | 16x25   | 270   | 540   |        |  |  |  |
| 47                 |   | 12.5x25 | 380   | 760   | 16x25   | 500   | 1000  | 18x26   | 500   | 1000  | 18x26   | 300   | 600   |        |  |  |  |
| 56                 |   | 16x25   | 500   | 1000  | 18x26   | 600   | 1200  | 18x26   | 550   | 1100  | 18x31.5 | 330   | 660   |        |  |  |  |
| 68                 |   | 16x25   | 650   | 1300  | 18x31.5 | 690   | 1380  | 18x31.5 | 600   | 1200  | 18x35.5 | 450   | 900   |        |  |  |  |
| 82                 |   | 18x26   | 750   | 1500  | 18x31.5 | 750   | 1500  | 18x31.5 | 650   | 1300  | 18x40   | 560   | 1120  |        |  |  |  |
| 100                |   | 18x31.5 | 800   | 1600  | 18x35.5 | 780   | 1560  | 18x35.5 | 750   | 1500  | 18x45   | 650   | 1300  |        |  |  |  |
| 120                |   | 18x35.5 | 850   | 1700  | 18x40   | 850   | 1700  | 18x40   | 800   | 1600  | 20x45   | 700   | 1400  |        |  |  |  |
| 150                |   | 18x40   | 900   | 1800  | 18x45   | 900   | 1800  | 20x45   | 827   | 1654  | 22x45   | 750   | 1500  |        |  |  |  |

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