

SKR series

- 105°C high-temperature resistance, high ripple current.
- RoHS Compliance.
- 105°C耐高温、高紋波。



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 | -40 ~ +105°C | | -25 ~ +105°C | |
| Rated Voltage Range 額定電壓範圍 | 160 ~ 400VDC | | 450VDC | |
| Leakage Current 洩漏電流 | $I \leq 0.03CV + 20 (\mu A)$ (After 3 minutes application of DC rated voltage) | | | |
| Dissipation Factor 散逸因素($\tan \delta$) | Measurement Frequency: 120Hz. Temperature: 20°C | | | |
| | Rated Voltage(V) | 160~250 | 400~450 | |
| | $\tan \delta$ (Max) | 0.15 | 0.20 | |
| Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值) | Measurement Frequency: 120Hz. | | | |
| | Rated Voltage(V) | 160~250 | 400 | 450 |
| | Z(-25°C)/Z(20°C) | 3 | 5 | 6 |
| | Z(-40°C)/Z(20°C) | 6 | 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 | | |
| | $\tan \delta$ | 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 | | |
| | $\tan \delta$ | 200% or less of Initial Specified Value | | |
| | Leakage Current | Initial Specified Value or less | | |
| Standards 參照標準 | JIS C 5101-4 (IEC 60384) | | | |

SKR

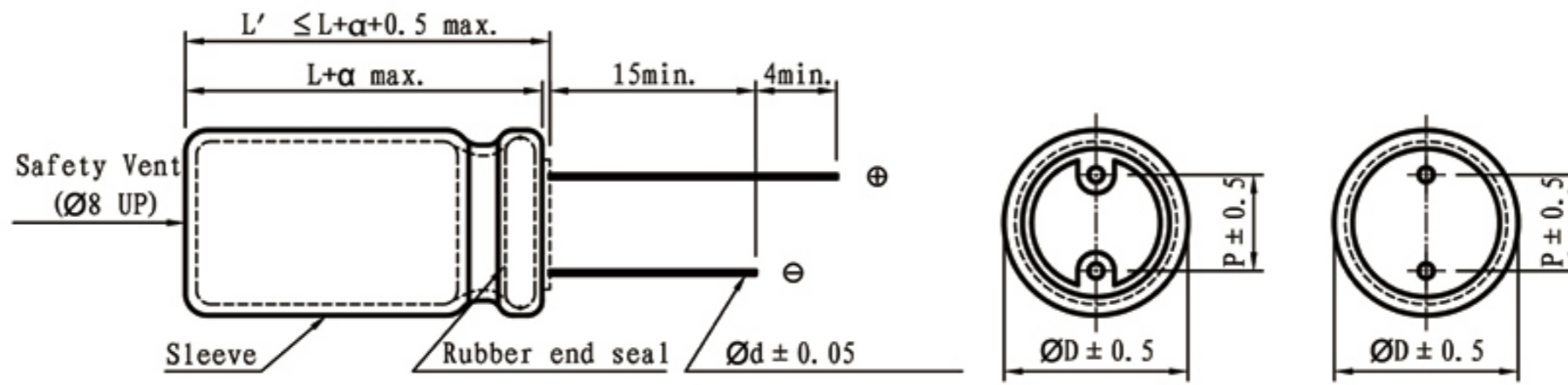
Frequency Coefficient of Permissible Ripple Current

| Capacitance (μF) | Frequency (Hz) | | | |
|-------------------------|----------------|------|------|------|
| | 120 | 1K | 10K | 100K |
| 22~82 | 1.00 | 1.25 | 1.50 | 1.75 |
| 100~470 | 1.00 | 1.15 | 1.30 | 1.40 |

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)



| | | | | | | |
|----------|-----|-----|------|-----|-----|------|
| ϕD | 10 | 13 | 14.5 | 16 | 18 | 20 |
| P | 5.0 | 5.0 | 7.5 | 7.5 | 7.5 | 10.0 |
| ϕd | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |

STANDARD RATINGS

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

| Cap (μF) | V Item | 160 | | 200 | | 250 | | 400 | | 450 | |
|--------------------|-----------|-------|---------|-------|-------|-------|------|---------|------|---------|------|
| | | 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. |
| 22 | | | | | | | | 10x30 | 260 | 10x35 | 280 |
| 33 | | | | | | | | 10x40 | 360 | 13x30 | 375 |
| 39 | | | | | | | | 10x45 | 405 | 13x35 | 415 |
| 47 | | | | | | | | 13x35 | 443 | 13x40 | 465 |
| | | | | | | | | | | 14.5x30 | 465 |
| 56 | | | | | | | | 13x40 | 510 | 14.5x35 | 520 |
| | | | | | | | | | | 16x30 | 520 |
| 68 | 10x25 | 375 | 10x30 | 485 | 13x25 | 530 | | 13x45 | 580 | 14.5x40 | 600 |
| | | | | | | | | 14.5x30 | 580 | 16x35 | 600 |
| 82 | 10x30 | 485 | 10x35 | 528 | 13x30 | 595 | | 14.5x40 | 635 | 16x40 | 650 |
| | | | | | | | | | | 18x32 | 650 |
| 100 | 10x35 | 528 | 10x40 | 615 | 16x25 | 650 | | 14.5x45 | 690 | 18x36 | 700 |
| | | | | | | | | 18x32 | 690 | | |
| 120 | 10x40 | 615 | 10x45 | 710 | 16x32 | 715 | | 16x40 | 810 | 18x40 | 820 |
| | | | | | | | | 18x36 | 810 | | |
| 150 | 10x45 | 710 | 13x35 | 780 | 16x35 | 860 | | 18x40 | 940 | 18x45 | 990 |
| | | | | | | | | | | 20x40 | 1000 |
| 220 | 13x40 | 880 | 13x45 | 995 | 18x36 | 1120 | | | | | |
| | | | 14.5x35 | 995 | | | | | | | |
| 270 | 13x45 | 995 | 16x35 | 1150 | 18x40 | 1200 | | | | | |
| 330 | 16x35 | 1150 | 16x40 | 1320 | | | | | | | |
| | | | 18x32 | 1320 | | | | | | | |
| 470 | 18x40 | 1270 | 18x45 | 1660 | | | | | | | |

※ 13mm may be replaced by 12.5mm upon customer's request.

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