

SSK Series

FEATURES

- 105°C Standard
- Load life 2000~3000 hours
- Compliant to the RoHS directive
- 105°C宽温通用品,
- 寿命2000~3000小时
- RoHS指令对策品



SPECIFICATIONS

| Items 项目 | Characteristics 特性 | | | | | | | | | | | |
|--|---|------|---|------|--------------|------|--|---------|--------------|---------|---------|---------|
| Capacitance Tolerance 静电容量误差 | ± 20%(120Hz,20°C) | | | | | | | | | | | |
| Operating Temperature Range 适用温度范围 | -40 ~ +105°C | | | | -40 ~ +105°C | | | | -25 ~ +105°C | | | |
| Rated Voltage Range 额定电压范围 | 6.3 ~ 100VDC | | | | 160 ~ 250VDC | | | | 350 ~ 500VDC | | | |
| Leakage Current 泄漏电流 | I ≤ 0.01CV or 3 (μA) which is greater.(After 2 minutes application of DC rated voltage, at 20 °C) | | | | | | I ≤ 0.03CV +20 (μA) (After 3 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 | 80 | 100 | 160~250 | 350~500 |
| | tan δ(Max) | 0.24 | 0.20 | 0.16 | 0.15 | 0.12 | 0.10 | 0.09 | 0.08 | 0.08 | 0.20 | 0.25 |
| When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF . | | | | | | | | | | | | |
| Low Temperature Stability 低温特性 Impedance Ratio(Max) 阻抗比率(最大值) | Measurement Frequency: 120Hz. | | | | | | | | | | | |
| | Rated Voltage(V) | 6.3 | 10 | 16 | 25 | 35 | 50~100 | 160~250 | 350~400 | 450~500 | | |
| | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 6 | 15 | | |
| Z(-40°C)/Z(20°C) | 10 | 8 | 6 | 4 | 3 | 3 | 4 | - | - | | | |
| Load Life 负荷寿命 | 2000hours,with application of rated voltage at 105°Cφ 3000hoursφ | | | | | | | | | | | |
| | 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 放置寿命 | 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 参照标准 | JIS C 5101-4 (IEC 60384) | | | | | | | | | | | |

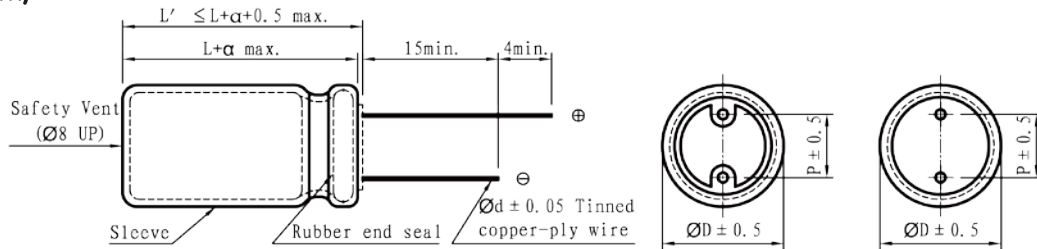
Frequency Coefficient of Permissible Ripple Current

| Rated Voltage (V) | Capacitance (μF) | Frequency (Hz) | | | |
|-------------------|------------------|----------------|------|------|------|
| | | 50 | 120 | 1K | ≤20K |
| ≤ 100 | < 100 | 0.75 | 1.00 | 1.57 | 2.00 |
| | 100 ~ 470 | 0.80 | 1.00 | 1.34 | 1.50 |
| | > 470 | 0.85 | 1.00 | 1.10 | 1.15 |
| ≥ 160 | 0.47 ~ 470 | 0.85 | 1.00 | 1.40 | 1.50 |

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.

SSK Series

DIMENSIONS(mm)



| | | | | | | | | | | |
|----------|-----|-----|-----|-----|-----|------|-----|-----|-----|------|
| ϕD | 5 | 6.3 | 8 | 10 | 13 | 14.5 | 16 | 18 | 22 | 25 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 7.5 | 10 | 12.5 |
| ϕd | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 |

| | |
|----------|-------------------|
| α | (L < 16) 1.0 |
| | (L \geq 16) 2.0 |

STANDARD RATINGS

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

| Cap (μF) | V (Code) Item | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | | 63 (1J) | | 100 (2A) | |
|--------------------|---------------------|-------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|-------|-------------|------|
| | | 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. | D x L | R.C. |
| 0.1~0.47 | | | | | | | | | | | | 5x11 | 11 | 5x11 | 12 | 5x11 | 17 |
| 1 | | | | | | | | | | | | 5x11 | 15 | 5x11 | 17 | 5x11 | 20 |
| 2.2 | | | | | | | | | | | | 5x11 | 24 | 5x11 | 25 | 5x11 | 30 |
| 3.3 | | | | | | | | | | | | 5x11 | 30 | 5x11 | 31 | 5x11 | 36 |
| 4.7 | | | | | | | | 5x11 | 30 | 5x11 | 31 | 5x11 | 36 | 5x11 | 37 | 5x11 | 44 |
| 6.8 | | | | | | | | 5x11 | 35 | 5x11 | 37 | 5x11 | 46 | 5x11 | 51 | 5x11 | 45 |
| 10 | | | | | | 5x11 | 42 | 5x11 | 43 | 5x11 | 47 | 5x11 | 54 | 5x11 | 58 | 6.3x11 | 75 |
| 22 | 5x11 | 54 | 5x11 | 59 | 5x11 | 63 | 5x11 | 65 | 5x11 | 75 | 5x11 | 83 | 6.3x11 | 109 | 8x12 | 112 | |
| 33 | 5x11 | 66 | 5x11 | 77 | 5x11 | 79 | 5x11 | 83 | 5x11 | 91 | 6.3x11 | 107 | 8x12 | 121 | 8x12 | 133 | |
| 47 | 5x11 | 78 | 5x11 | 87 | 5x11 | 94 | 5x11 | 97 | 6.3x11 | 116 | 6.3x11 | 145 | 8x12 | 163 | 10x13 | 170 | |
| 56 | 5x11 | 90 | 5x11 | 100 | 5x11 | 105 | 5x11 | 109 | 6.3x11 | 127 | 6.3x11 | 151 | 8x12 | 172 | 10x16 | 187 | |
| 68 | 5x11 | 102 | 5x11 | 119 | 5x11 | 145 | 5x11 | 151 | 6.3x11 | 169 | 6.3x11 | 196 | 8x12 | 206 | 10x16 | 238 | |
| 100 | 5x11 | 111 | 5x11 | 139 | 6.3x11 | 151 | 6.3x11 | 163 | 8x12 | 194 | 8x14 | 242 | 10x13 | 254 | 10x20 | 315 | |
| 220 | 5x11 | 175 | 6.3x11 | 212 | 8x12 | 237 | 8x12 | 290 | 10x13 | 332 | 10x16 | 363 | 10x20 | 436 | 13x25 | 581 | |
| 330 | 6.3x11 | 233 | 6.3x11 | 272 | 8x12 | 321 | 10x13 | 369 | 10x16 | 484 | 10x20 | 514 | 13x21 | 666 | 16x26 | 714 | |
| 470 | 6.3x11 | 266 | 8x12 | 299 | 8x14 | 381 | 8x16 | 436 | 10x20 | 581 | 13x21 | 762 | 13x25 | 847 | 16x32 | 968 | |
| 560 | 8x12 | 272 | 8x12 | 306 | 8x14 | 387 | 10x16 | 448 | 10x20 | 629 | 13x21 | 774 | 13x25 | 871 | 16x36 | 1012 | |
| 680 | 8x12 | 278 | 8x12 | 319 | 8x16 | 424 | 10x20 | 581 | 13x21 | 702 | 13x25 | 799 | 16x26 | 1004 | 18x32 | 1210 | |
| 1000 | 8x14 | 484 | 10x13 | 586 | 10x16 | 617 | 10x20 | 750 | 13x21 | 908 | 13x25 | 1089 | 16x32 | 1210 | 18x35 | 1573 | |
| 1500 | 8x20 | 545 | 10x20 | 592 | 10x20 | 641 | 13x21 | 787 | 13x25 | 1041 | 16x32 | 1452 | 18x32 | 1718 | | | |
| 2200 | 10x20 | 774 | 10x20 | 918 | 13x21 | 1004 | 13x25 | 1132 | 16x26 | 1343 | 16x36 | 1609 | 18x35 | 1997 | | | |
| 3300 | 10x20 | 908 | 13x21 | 1091 | 13x25 | 1222 | 16x26 | 1428 | 16x36 | 1730 | 18x35 | 1997 | 22x40 | 2347 | | | |
| 4700 | 13x21 | 1162 | 13x25 | 1306 | 16x26 | 1464 | 16x32 | 1718 | 18x35 | 2057 | 22x40 | 2541 | 22x50 | 2965 | | | |
| 6800 | 13x25 | 1385 | 16x26 | 1770 | 16x36 | 1863 | 18x35 | 2202 | 22x40 | 2602 | 22x50 | 3025 | | | | | |
| 10000 | 16x26 | 1730 | 16x36 | 2236 | 18x35 | 2335 | 22x40 | 2589 | 22x50 | 3207 | | | | | | | |
| 15000 | 16x36 | 2214 | 18x35 | 2808 | 22x40 | 2928 | 22x50 | 3328 | | | | | | | | | |
| 22000 | 18x40 | 2771 | 22x40 | 3514 | 22x50 | 3630 | | | | | | | | | | | |

| Cap (μF) | V (Code) Item | 160 (2C) | | 200 (2D) | | 250 (2E) | | 350 (2V) | | 400 (2G) | | 450 (2W) | | 500 (2H) | |
|--------------------|---------------------|-------------|--------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|------|
| | | 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. |
| 2.2 | 6.3x11 | 26 | 6.3x11 | 28 | 8x12 | 34 | 8x12 | 30 | 10x13 | 36 | 10x16 | 39 | | | |
| 3.3 | 8x12 | 36 | 8x12 | 42 | 8x12 | 48 | 10x13 | 39 | 10x13 | 46 | 10x16 | 51 | 10x20 | 35 | |
| 4.7 | 8x12 | 48 | 8x12 | 51 | 10x13 | 61 | 10x13 | 46 | 10x16 | 61 | 10x20 | 65 | 10x20 | 48 | |
| 6.8 | 8x12 | 51 | 8x12 | 61 | 10x13 | 70 | 10x13 | 76 | 10x16 | 83 | 13x21 | 87 | 13x21 | 65 | |
| 10 | 10x13 | 61 | 10x16 | 73 | 10x16 | 85 | 10x20 | 97 | 10x20 | 97 | 13x21 | 95 | 13x21 | 80 | |
| 22 | 10x16 | 121 | 10x20 | 163 | 13x21 | 157 | 13x25 | 151 | 13x25 | 175 | 16x26 | 182 | 16x26 | 105 | |
| 33 | 10x20 | 145 | 13x21 | 175 | 13x21 | 182 | 13x25 | 176 | 16x26 | 211 | 16x26 | 211 | 16x32 | 145 | |
| 47 | 13x21 | 194 | 13x25 | 242 | 13x25 | 248 | 16x26 | 254 | 16x26 | 278 | 16x32 | 339 | 18x35 | 165 | |
| 68 | 13x21 | 224 | 13x25 | 253 | 16x26 | 272 | 16x32 | 260 | 16x32 | 317 | 18x32 | 508 | 18x45 | 180 | |
| 82 | 13x25 | 266 | 13x25 | 278 | 16x26 | 300 | 16x32 | 284 | 18x26 | 424 | 18x35 | 569 | | | |
| 100 | 16x26 | 363 | 16x26 | 320 | 16x32 | 393 | 18x32 | 328 | 18x32 | 484 | 18x40 | 605 | | | |
| 120 | 16x26 | 363 | 16x26 | 363 | 16x32 | 460 | 18x35 | 347 | 18x35 | 545 | 18x40 | 666 | | | |
| 150 | 16x26 | 399 | 16x32 | 444 | 18x32 | 545 | 18x40 | 387 | 18x40 | 605 | 22x45 | 750 | | | |
| 220 | 16x36 | 520 | 18x32 | 641 | 22x35 | 847 | | | | | | | | | |
| 330 | 18x35 | 726 | 22x35 | 750 | | | | | | | | | | | |
| 470 | 18x40 | 877 | 22x40 | 925 | | | | | | | | | | | |

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

Note: All design and specification are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact KNSCHA immediately for technical assistance before purchase.

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