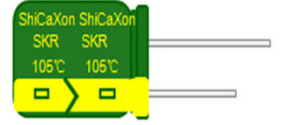


SKR Series

7mm/9mm height (7mm/9mm高, +105°C 高频低阻抗)

- Features: High frequency Low impedance ,with 7mm/9mm height.
特点：7mm/9mm高,高频低阻抗品。
- Recommended Applications: Suited for DC-DC converts ,switching power ,etc.
适合直流转换电路、开关电源等。
- Corresponding product to RoHS (2011/65/EU)
符合RoHS要求的相应产品(2011/65/EU)

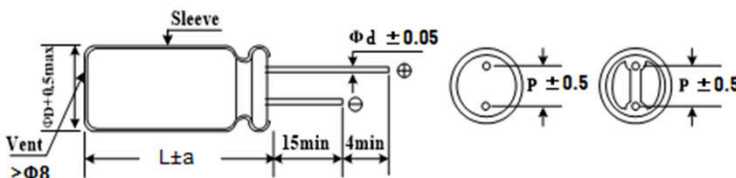


Specifications(技术性能)

| Item 项目 | Characteristics 性能 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|------------------------|---|----------------------|--------------------------------------|----|-------------|----------|------|------|------|------|------|--|--|---|---|---|---|---|---|--|---|---|---|---|---|---|
| Operating Temperature Range 温度范围 | -40 ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range 电压范围 | 6.3 ~ 50VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Capacitance Range 容量范围 | 4.7 ~ 1000µF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance 容量偏差 | ± 20 % at 120Hz , 20°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current (MAX) (20°C) 泄漏电流 | I=0.01CV or 3(µA) whichever is greater. (After rated voltage applied for 2 minutes) 两者取较大值, 2分钟测试 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor 损耗角 (tanδ) (120Hz ,20°C) | <table border="1"> <tr> <td>WV (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ (max)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> | WV (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | tan δ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | | | | | | | | | | | | | | | |
| | WV (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | | |
| tan δ (max) | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio (MAX) 低温阻抗比 | <table border="1"> <tr> <td rowspan="3"> $\frac{Z(-25^\circ\text{C})}{Z(+20^\circ\text{C})}$ $\frac{Z(-40^\circ\text{C})}{Z(+20^\circ\text{C})}$ </td> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z(120Hz)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td></td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> | $\frac{Z(-25^\circ\text{C})}{Z(+20^\circ\text{C})}$ $\frac{Z(-40^\circ\text{C})}{Z(+20^\circ\text{C})}$ | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | Z(120Hz) | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | | 4 | 4 | 4 | 3 | 3 | 3 |
| $\frac{Z(-25^\circ\text{C})}{Z(+20^\circ\text{C})}$ $\frac{Z(-40^\circ\text{C})}{Z(+20^\circ\text{C})}$ | WV | | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | | | | |
| | Z(120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4 | 4 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| High Temperature Load Life 高温负载耐久性 | After applying rated voltage for 1000 hours at 105°C. the capacitors shall meet the following requirements.在105°C环境下连续施加额定电压1000小时后,符合以下要求。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <tr> <td>Capacitance Change 容量</td> <td>Within ± 20 % of initial value 在初始值的±20%</td> </tr> <tr> <td>Dissipation Factor 损耗角</td> <td>Not more than 200% of the specified value 不超过标准值的200%</td> </tr> <tr> <td>Leakage Current 泄漏电流</td> <td>Initial specified value or less 标准值内</td> </tr> </table> | Capacitance Change 容量 | Within ± 20 % of initial value 在初始值的±20% | Dissipation Factor 损耗角 | Not more than 200% of the specified value 不超过标准值的200% | Leakage Current 泄漏电流 | Initial specified value or less 标准值内 | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance Change 容量 | Within ± 20 % of initial value 在初始值的±20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor 损耗角 | Not more than 200% of the specified value 不超过标准值的200% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current 泄漏电流 | Initial specified value or less 标准值内 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Temperature Shelf Life 高温放置耐久性 | After leaving capacitors under no load at 105°C for 1000 hours.the capacitors shall meet the same requirement as Endurance. 在105°C环境下不加负载放置1000小时后电性能同耐久性要求。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CASE SIZE TABLE

外形尺寸



Unit: mm

| ΦD | 4 | 5 | 6.3 | 8 |
|----|------|-----|-----|---------|
| P | 1.5 | 2.0 | 2.5 | 2.5/3.5 |
| Φd | 0.45 | | | 0.50 |
| a | 1.0 | | | |

RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient (频率系数)

| Frequency (Hz) | 120 | 300 | 10K | 100K |
|----------------|------|------|------|------|
| ~180 | 0.40 | 0.75 | 0.90 | 1.00 |
| 220~1000 | 0.50 | 0.85 | 0.94 | 1.00 |

(2) Temperature Coefficient(温度系数)

| Temperature (°C) | -40 | 65 | 70 | 85 | 105 |
|------------------|------|------|------|------|------|
| Factor | 2.33 | 2.17 | 2.00 | 1.75 | 1.00 |



ALUMINUM ELECTROLYTIC CAPACITORS

SKR

7mm/9mm height (7mm/9mm高, +105°C 高频低阻抗)

Series

■ DIMENSIONS Rated Capacitors, Voltage(Surge), Case Size, Imp, Ripple Current .容量、电压 (浪涌电压)、尺寸、阻抗、纹波电流.

| Cap(μF) | Rated (Surge) Voltage (V) | | | | | | | | |
|---------|---------------------------|------|--------|---------|------|--------|---------|------|--------|
| | 6.3 (8) | | | 10 (13) | | | 16 (20) | | |
| | Size | Imp | Ripple | Size | Imp | Ripple | Size | Imp | Ripple |
| 10 | | | | 4x7 | 4.00 | 55 | 4x7 | 4.00 | 55 |
| 22 | | | | 4x7 | 3.30 | 70 | 4x7 | 2.10 | 100 |
| 33 | 4x7 | 2.10 | 110 | 5x7 | 1.70 | 110 | 5x7 | 0.80 | 160 |
| 47 | 5x7 | 1.70 | 160 | 5x7 | 0.80 | 160 | 4x7 | 1.50 | 160 |
| | | | | | | | 5x7 | 0.80 | 180 |
| 100 | 5x7 | 0.80 | 160 | 5x7 | 0.65 | 175 | 5x7 | 0.68 | 185 |
| | | | | 6.3x7 | 0.50 | 200 | 6.3x7 | 0.50 | 200 |
| 220 | 6.3x7 | 0.50 | 200 | 6.3x7 | 0.45 | 210 | 6.3x7 | 0.40 | 220 |
| | | | | 8x7 | 0.40 | 240 | 8x7 | 0.32 | 242 |
| 330 | 8x7 | 0.54 | 200 | | | | | | |
| 470 | 8x7 | 0.40 | 220 | 6.3x9 | 0.30 | 257 | 8x9 | 0.20 | 420 |
| | | | | 8x9 | 0.16 | 507 | | | |
| 680 | 8x9 | 0.40 | 220 | 8x9 | 0.15 | 610 | | | |
| 1000 | 8x9 | 0.30 | 260 | | | | | | |

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size ΦD X L (mm)

Maximum Impedance (Ω) at 20°C 100KHz

| Cap(μF) | Rated (Surge) Voltage (V) | | | | | | | | |
|---------|---------------------------|------|--------|---------|------|--------|---------|------|--------|
| | 25 (32) | | | 35 (44) | | | 50 (63) | | |
| | Size | Imp | Ripple | Size | Imp | Ripple | Size | Imp | Ripple |
| 4.7 | | | | 4x7 | 3.60 | 70 | 4x7 | 3.60 | 70 |
| 10 | 4x7 | 3.30 | 70 | 4x7 | 2.00 | 100 | 5x7 | 1.70 | 110 |
| 22 | 5x7 | 1.70 | 110 | 6.3x7 | 0.80 | 160 | 6.3x7 | 1.20 | 150 |
| 33 | 5x7 | 0.80 | 160 | 8x7 | 0.50 | 200 | 8x7 | 0.50 | 200 |
| 47 | 5x7 | 1.10 | 157 | 6.3x7 | 0.45 | 195 | 8x7 | 0.46 | 220 |
| | 6.3x7 | 0.80 | 177 | 8x7 | 0.40 | 220 | 8x9 | 0.40 | 250 |
| 68 | | | | 6.3x7 | 0.42 | 234 | | | |
| 100 | 6.3x7 | 0.80 | 195 | 8x9 | 0.40 | 250 | | | |
| | 8x7 | 0.78 | 250 | 6.3x7 | 0.41 | 198 | | | |
| 220 | 8x7 | 0.40 | 330 | 8x9 | 0.30 | 370 | | | |
| | 8x9 | 0.35 | 360 | | | | | | |

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Case Size ΦD X L (mm)

Maximum Impedance (Ω) at 20°C 100KHz