# Radial Inductor

## FEATURES

- Small size and light weight
- High Q value and large inductance range
- Heat shrink sleeve protection

## APPLICATIONS

- Suitable for DC/DC conversion

## PRODUCT IDENTIFICATION

**SKRI 0304 — 1R0 K**

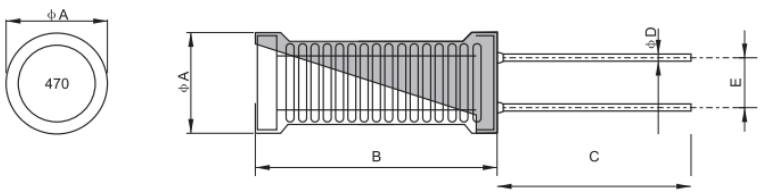
Product Code

Dimension： **Φ(Outer Diameter)×H**(mm)

Inductance Deviation
J：±5%
K：±10%
M：±20%
**N**：±30%

Inductance
4R7：4.7μH
471：470μH
1R0：1.0μH

## SHAPE AND DIMENSIONS




Units: mm

| Type Specification | Product Size | | | | |
|---|---|---|---|---|---|
| | ϕAm | Bmax | C | ϕD | E |
| SKRI0406 | 6 | 9.5 | By customer request | 0.50±0.1 | 1.75±0.5 |
| SKRI0507 | 7 | 12.0 | | 0.60±0.1 | 2.5±0.5 |
| SKRI0608 | 8 | 13.5 | | 0.65±0.1 | 3.0±0.5 |
| SKRI0810 | 9.5 | 15.5 | | 0.65±0.1 | 5.0±0.5 |
| SKRI0912 | 11.0 | 17.5 | | 0.80±0.1 | 5.0±0.5 |
| SKRI1012 | 12.5 | 16.0 | | 0.80±0.1 | 5.0±0.5 |

## RECOMMENDED PAD SIZE

SKRI0406 TYPE

| Type Specification | Inductance L (μH) | Inductance deviation | L Test conditions (KHz/V) | Dc resistance Max (Ω) | Rated current Max (mA) |
|---|---|---|---|---|---|
| SKRI0406-1R0 | 1.0 | K、M | 1/0.25 | 0.022 | 3200 |
| SKRI0406-1R2 | 1.2 | K、M | 1/0.25 | 0.026 | 3000 |
| SKRI0406-1R5 | 1.5 | K、M | 1/0.25 | 0.032 | 2650 |
| SKRI0406-1R8 | 1.8 | K、M | 1/0.25 | 0.035 | 2400 |
| SKRI0406-2R2 | 2.2 | K、M | 1/0.25 | 0.040 | 2200 |
| SKRI0406-2R7 | 2.7 | K、M | 1/0.25 | 0.045 | 2000 |
| SKRI0406-3R3 | 3.3 | K、M | 1/0.25 | 0.050 | 1850 |
| SKRI0406-3R9 | 3.9 | K、M | 1/0.25 | 0.055 | 1750 |
| SKRI0406-4R7 | 4.7 | K、M | 1/0.25 | 0.065 | 1550 |
| SKRI0406-5R6 | 5.6 | K、M | 1/0.25 | 0.070 | 1450 |
| SKRI0406-6R8 | 6.8 | K、M | 1/0.25 | 0.080 | 1350 |
| SKRI0406-8R2 | 8.2 | K、M | 1/0.25 | 0.095 | 1150 |
| SKRI0406-100 | 10 | K、M | 1/0.25 | 0.100 | 1050 |
| SKRI0406-120 | 12 | K、M | 1/0.25 | 0.120 | 1000 |
| SKRI0406-150 | 15 | K、M | 1/0.25 | 0.140 | 900 |

## SPECIFICATIONS

SKFWI0402 TYPE

| Type Specification | Inductance L (μH) | Inductance deviation | L Test conditions (KHz/V) | Dc resistance Max (Ω) | Rated current Max (mA) |
|---|---|---|---|---|---|
| SKRI0406-180 | 18 | K、M | 1/0.25 | 0.160 | 800 |
| SKRI0406-220 | 22 | K、M | 1/0.25 | 0.220 | 700 |
| SKRI0406-270 | 27 | K、M | 1/0.25 | 0.240 | 650 |
| SKRI0406-330 | 33 | K、M | 1/0.25 | 0.280 | 600 |
| SKRI0406-390 | 39 | K、M | 1/0.25 | 0.350 | 550 |
| SKRI0406-470 | 47 | K、M | 1/0.25 | 0.430 | 500 |
| SKRI0406-560 | 56 | K、M | 1/0.25 | 0.510 | 450 |
| SKRI0406-680 | 68 | K、M | 1/0.25 | 0.650 | 420 |
| SKRI0406-820 | 82 | K、M | 1/0.25 | 0.800 | 380 |
| SKRI0406-101 | 100 | K、M | 1/0.25 | 1.00 | 340 |
| SKRI0406-121 | 120 | K、M | 1/0.25 | 1.25 | 310 |
| SKRI0406-151 | 150 | K、M | 1/0.25 | 1.45 | 280 |
| SKRI0406-181 | 180 | K、M | 1/0.25 | 1.90 | 250 |
| SKRI0406-221 | 220 | K、M | 1/0.25 | 2.45 | 230 |
| SKRI0406-271 | 270 | K、M | 1/0.25 | 2.75 | 210 |
| SKRI0406-331 | 330 | K、M | 1/0.25 | 3.60 | 190 |
| SKRI0406-391 | 390 | K、M | 1/0.25 | 4.00 | 170 |
| SKRI0406-471 | 470 | K、M | 1/0.25 | 5.35 | 150 |

## SPECIFICATIONS

SKRI0406 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI0406-1R0 | 1.0 | K、M | 1/0.25 | 0.022 | 3200 |
| SKRI0406-1R2 | 1.2 | K、M | 1/0.25 | 0.026 | 3000 |
| SKRI0406-1R5 | 1.5 | K、M | 1/0.25 | 0.032 | 2650 |
| SKRI0406-1R8 | 1.8 | K、M | 1/0.25 | 0.035 | 2400 |
| SKRI0406-2R2 | 2.2 | K、M | 1/0.25 | 0.040 | 2200 |
| SKRI0406-2R7 | 2.7 | K、M | 1/0.25 | 0.045 | 2000 |
| SKRI0406-3R3 | 3.3 | K、M | 1/0.25 | 0.050 | 1850 |
| SKRI0406-3R9 | 3.9 | K、M | 1/0.25 | 0.055 | 1750 |
| SKRI0406-4R7 | 4.7 | K、M | 1/0.25 | 0.065 | 1550 |
| SKRI0406-5R6 | 5.6 | K、M | 1/0.25 | 0.070 | 1450 |
| SKRI0406-6R8 | 6.8 | K、M | 1/0.25 | 0.080 | 1350 |
| SKRI0406-8R2 | 8.2 | K、M | 1/0,25 | 0.095 | 1150 |
| SKRI0406-100 | 10 | K、M | 1/0.25 | 0.100 | 1050 |
| SKRI0406-120 | 12 | K、M | 1/0.25 | 0.120 | 1000 |
| SKRI0406-150 | 15 | K、M | 1/0.25 | 0.140 | 900 |
| SKRI0406-180 | 18 | K、M | 1/0.25 | 0.16 | 800 |
| SKRI0406-220 | 22 | K、M | 1/0.25 | 0.22 | 700 |
| SKRI0406-270 | 27 | K、M | 1/0.25 | 0.24 | 650 |
| SKRI0406-330 | 33 | K、M | 1/0.25 | 0.28 | 600 |
| SKRI0406-390 | 39 | K、M | 1/0.25 | 0.35 | 550 |
| SKRI0406-470 | 47 | K、M | 1/0.25 | 0.43 | 500 |
| SKRI0406-560 | 56 | K、M | 1/0.25 | 0.51 | 450 |
| SKRI0406-680 | 68 | K、M | 1/0.25 | 0.65 | 420 |
| SKRI0406-820 | 82 | K、M | 1/0.25 | 0.8 | 380 |
| SKRI0406-101 | 100 | K、M | 1/0.25 | 1 | 340 |
| SKRI0406-121 | 120 | K、M | 1/0.25 | 1.25 | 310 |
| SKRI0406-151 | 150 | K、M | 1/0.25 | 1.45 | 280 |
| SKRI0406-181 | 180 | K、M | 1/0.25 | 1.9 | 250 |
| SKRI0406-221 | 220 | K、M | 1/0.25 | 2.45 | 230 |
| SKRI0406-271 | 270 | K、M | 1/0.25 | 2.75 | 210 |
| SKRI0406-331 | 330 | K、M | 1/0.25 | 3.6 | 190 |
| SKRI0406-391 | 390 | K、M | 1/0.25 | 4 | 170 |
| SKRI0406-471 | 470 | K、M | 1/0.25 | 5.35 | 150 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.

SKRI0507 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI0507-1R5 | 1.5 | K、M | 1/0.25 | 0.018 | 3500 |
| SKRI0507-1R8 | 1.8 | K、M | 1/0.25 | 0.020 | 3100 |
| SKRI0507-2R2 | 2.2 | K、M | 1/0.25 | 0.026 | 2800 |
| SKRI0507-2R7 | 2.7 | K、M | 1/0.25 | 0.031 | 2500 |
| SKRI0507-3R3 | 3.3 | K、M | 1/0.25 | 0.040 | 2300 |
| SKRI0507-3R9 | 3.9 | K、M | 1/0.25 | 0.045 | 2100 |
| SKRI0507-4R7 | 4.7 | K、M | 1/0.25 | 0.048 | 1950 |
| SKRI0507-5R6 | 5.6 | K、M | 1/0.25 | 0.058 | 1700 |
| SKRI0507-6R8 | 6.8 | K、M | 1/0.25 | 0.066 | 1600 |
| SKRI0507-8R2 | 8.2 | K、M | 1/0.25 | 0.082 | 1450 |
| SKRI0507-100 | 10 | K、M | 1/0.25 | 0.090 | 1300 |
| SKRI0507-120 | 12 | K、M | 1/0.25 | 0.097 | 1150 |
| SKRI0507-150 | 15 | K、M | 1/0.25 | 0.110 | 1050 |
| SKRI0507-180 | 18 | K、M | 1/0.25 | 0.130 | 1000 |
| SKRI0507-220 | 22 | K、M | 1/0.25 | 0.150 | 900 |
| SKRI0507-270 | 27 | K、M | 1/0.25 | 0.190 | 790 |
| SKRI0507-330 | 33 | K、M | 1/0.25 | 0.230 | 730 |
| SKRI0507-390 | 39 | K、M | 1/0.25 | 0.260 | 670 |
| SKRI0507-470 | 47 | K、M | 1/0.25 | 0.330 | 610 |
| SKRI0507-560 | 56 | K、M | 1/0.25 | 0.390 | 560 |
| SKRI0507-680 | 68 | K、M | 1/0.25 | 0.480 | 510 |
| SKRI0507-820 | 82 | K、M | 1/0.25 | 0.580 | 460 |
| SKRI0507-101 | 100 | K、M | 1/0.25 | 0.750 | 420 |
| SKRI0507-121 | 120 | K、M | 1/0.25 | 0.900 | 380 |
| SKRI0507-151 | 150 | K、M | 1/0.25 | 1.15 | 340 |
| SKRI0507-181 | 180 | K、M | 1/0.25 | 1.50 | 310 |
| SKRI0507-221 | 220 | K、M | 1/0.25 | 1.90 | 280 |
| SKRI0507-271 | 270 | K、M | 1/0.25 | 2.15 | 260 |
| SKRI0507-331 | 330 | K、M | 1/0.25 | 2.75 | 230 |
| SKRI0507-391 | 390 | K、M | 1/0.25 | 3.05 | 210 |
| SKRI0507-471 | 470 | K、M | 1/0.25 | 4.00 | 190 |
| SKRI0507-561 | 560 | K、M | 1/0.25 | 4.45 | 180 |
| SKRI0507-681 | 680 | K、M | 1/0.25 | 5.05 | 160 |
| SKRI0507-821 | 820 | K、M | 1/0.25 | 6.75 | 150 |
| SKRI0507-102 | 1000 | K、M | 1/0.25 | 7.55 | 130 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.

SKRI0608 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI0608-1R2 | 1.2 | K、M | 1/0.25 | 0.014 | 4500 |
| SKRI0608-1R5 | 1.5 | K、M | 1/0.25 | 0.016 | 4100 |
| SKRI0608-2R2 | 2.2 | K、M | 1/0.25 | 0.021 | 3200 |
| SKRI0608-2R7 | 2.7 | K、M | 1/0.25 | 0.023 | 2930 |
| SKRI0608-3R3 | 3.3 | K、M | 1/0.25 | 0.025 | 2700 |
| SKRI0608-3R9 | 3.9 | K、M | 1/0.25 | 0.029 | 2500 |
| SKRI0608-4R7 | 4.7 | K、M | 1/0.25 | 0.031 | 2300 |
| SKRI0608-5R6 | 5.6 | K、M | 1/0.25 | 0.033 | 2150 |
| SKRI0608-6R8 | 6.8 | K、M | 1/0.25 | 0.035 | 2000 |
| SKRI0608-8R2 | 8.2 | K、M | 1/0.25 | 0.040 | 1750 |
| SKRI0608-100 | 10 | K、M | 1/0.25 | 0.046 | 1600 |
| SKRI0608-120 | 12 | K、M | 1/0.25 | 0.058 | 1450 |
| SKRI0608-150 | 15 | K、M | 1/0.25 | 0.066 | 1300 |
| SKRI0608-180 | 18 | K、M | 1/0.25 | 0.079 | 1200 |
| SKRI0608-220 | 22 | K、M | 1/0.25 | 0.088 | 1100 |
| SKRI0608-270 | 27 | K、M | 1/0.25 | 0.110 | 950 |
| SKRI0608-330 | 33 | K、M | 1/0.25 | 0.130 | 900 |
| SKRI0608-390 | 39 | K、M | 1/0.25 | 0.160 | 850 |
| SKRI0608-470 | 47 | K、M | 1/0.25 | 0.190 | 750 |
| SKRI0608-560 | 56 | K、M | 1/0.25 | 0.220 | 690 |
| SKRI0608-680 | 68 | K、M | 1/0.25 | 0.260 | 620 |
| SKRI0608-820 | 82 | K、M | 1/0.25 | 0.310 | 570 |
| SKRI0608-101 | 100 | K、M | 1/0.25 | 0.370 | 520 |
| SKRI0608-121 | 120 | K、M | 1/0.25 | 0.460 | 470 |
| SKRI0608-151 | 150 | K、M | 1/0.25 | 0.600 | 420 |
| SKRI0608-181 | 180 | K、M | 1/0.25 | 0.700 | 380 |
| SKRI0608-221 | 220 | K、M | 1/0.25 | 0.850 | 350 |
| SKRI0608-271 | 270 | K、M | 1/0.25 | 1.00 | 310 |
| SKRI0608-331 | 330 | K、M | 1/0.25 | 1.14 | 280 |
| SKRI0608-391 | 390 | K、M | 1/0.25 | 1.35 | 260 |
| SKRI0608-471 | 470 | K、M | 1/0.25 | 1.65 | 240 |
| SKRI0608-561 | 560 | K、M | 1/0.25 | 2.00 | 220 |
| SKRI0608-681 | 680 | K、M | 1/0.25 | 2.50 | 200 |
| SKRI0608-821 | 820 | K、M | 1/0.25 | 3.10 | 180 |
| SKRI0608-102 | 1000 | K、M | 1/0.25 | 3.90 | 160 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.

SKRI0810 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI0810-2R2 | 2.2 | K、M | 1/0.-25 | 0.018 | 4800 |
| SKRI0810-3R3 | 3.3 | K、M | 1/0.-25 | 0.020 | 4300 |
| SKRI0810-3R9 | 3.9 | K、M | 1/0.-25 | 0.022 | 3850 |
| SKRI0810-4R7 | 4.7 | K、M | 1/0.25 | 0.024 | 3500 |
| SKRI0810-5R6 | 5.6 | K、M | 1/0.25 | 0.027 | 3250 |
| SKRI0810-6R8 | 6.8 | K、M | 1/0.25 | 0.031 | 2800 |
| SKRI0810-8R2 | 8.2 | K、M | 1/0.-25 | 0.033 | 2600 |
| SKRI0810-100 | 10 | K、M | 1/0.25 | 0.037 | 2350 |
| SKRI0810-120 | 12 | K、M | 1/0.25 | 0.041 | 2250 |
| SKRI0810-150 | 15 | K、M | 1/0.25 | 0.047 | 1900 |
| SKRI0810-180 | 18 | K、M | 1/0.25 | 0.052 | 1750 |
| SKRI0810-220 | 22 | K、M | 1/0.25 | 0.059 | 1600 |
| SKRI0810-270 | 27 | K、M | 1/0.25 | 0.065 | 1430 |
| SKRI0810-330 | 33 | K、M | 1/0.25 | 0.075 | 1300 |
| SKRI0810-390 | 39 | K、M | 1/0.25 | 0.100 | 1180 |
| SKRI0810-470 | 47 | K、M | 1/0.25 | 0.110 | 1090 |
| SKRI0810-560 | 56 | K、M | 1/0.25 | 0.120 | 1000 |
| SKRI0810-680 | 68 | K、M | 1/0.25 | 0.160 | 920 |
| SKRI0810-820 | 82 | K、M | 1/0.25 | 0.170 | 820 |
| SKRI0810-101 | 100 | K、M | 1/0.25 | 0.200 | 750 |
| SKRI0810-121 | 120 | K、M | 1/0.25 | 0.240 | 690 |
| SKRI0810-151 | 150 | K、M | 1/0.25 | 0.320 | 610 |
| SKRI0810-181 | 180 | K、M | 1/0.25 | 0.360 | 560 |
| SKRI0810-221 | 220 | K、M | 1/0.25 | 0.450 | 510 |
| SKRI0810-271 | 270 | K、M | 1/0.25 | 0.550 | 410 |
| SKRI0810-331 | 330 | K、M | 1/0.25 | 0.650 | 390 |
| SKRI0810-391 | 390 | K、M | 1/0.25 | 0.800 | 380 |
| SKRI0810-471 | 470 | K、M | 1/0.25 | 0.900 | 350 |
| SKRI0810-561 | 560 | K、M | 1/0.25 | 1.150 | 320 |
| SKRI0810-681 | 680 | K、M | 1/0.25 | 1.360 | 290 |
| SKRI0810-821 | 820 | K、M | 1/0.25 | 1.650 | 260 |
| SKRI0810-102 | 1000 | K、M | 1/0.25 | 2.000 | 240 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.

SKRI0912 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI0912-132 | 1000-1500 | | 1/0.25 | 1.20±0.05 | 400 |
| SKRI0912-142 | 1000-1500 | | 1/0.25 | 1.50±0.05 | 400 |
| SKRI0912-332 | 3300 | K、M | 1/0.25 | 5.000 | 250 |
| SKRI0912-502 | 5000 | K、M | 1/0.25 | 7.000 | 200 |
| SKRI0912-602 | 6000 | K、M | 1/0.25 | 7.700 | 200 |
| SKRI0912-902 | 9000 | K、M | 1/0.25 | 10.000 | 200 |
| SKRI0912-103 | 10000 | K、M | 1/0-25 | 11.000 | 200 |
| SKRI0912-113 | 11000 | K、M | 1/0.25 | 12.000 | 200 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.

SKRI1012 TYPE

| Part Number | Inductance | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|
| Units | μH | - | KHzN | Ω | mA |
| Symbol | L | - | - | DCR | Ir |
| SKRI1012-330 | 33 | K、M | 1/0.25 | 0.065 | 3000 |
| SKRI1012-560 | 56 | K、M | 1/0.25 | 0.060 | 2500 |
| SKRI1012-680 | 68 | K、M | 1/0.25 | 0.120 | 1750 |
| SKRI1012-101 | 100 | K、M | 1/0.25 | 0.180 | 1500 |
| SKRI1012-221 | 220 | K、M | 1/0.25 | 0.400 | 1000 |
| SKRI1012-331 | 330 | K、M | 1/0.25 | 0.550 | 800 |
| SKRI1012-102 | 1000 | K、M | 1/0.25 | 1.5 | 450 |
| SKRI1012-152 | 1500 | K、M | 1/0.25 | 3.2 | 320 |
| SKRI1012-252 | 2500 | K、M | 1/0.25 | 4.0 | 270 |
| SKRI1012-302 | 3000 | K、M | 1/0.25 | 6.0 | 280 |
| SKRI1012-104 | 100000 | K、M | 1/0.25 | 225 | 50 |
| SKRI1012-504 | 500000 | K、M | 1/0.25 | 770 | 10 |

Note: Inductance deviation code is: K or M, K:±10%, M:±20%.