



## 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



### SHAPE AND DIMENSIONS



Units: mm

| Type Specification | Product Size |           |                     |               |               |
|--------------------|--------------|-----------|---------------------|---------------|---------------|
|                    | $\phi A_m$   | $B_{max}$ | C                   | $\phi D$      | E             |
| SKRI0406           | 6            | 9.5       | By customer request | $0.50\pm 0.1$ | $1.75\pm 0.5$ |
| SKRI0507           | 7            | 12.0      |                     | $0.60\pm 0.1$ | $2.5\pm 0.5$  |
| SKRI0608           | 8            | 13.5      |                     | $0.65\pm 0.1$ | $3.0\pm 0.5$  |
| SKRI0810           | 9.5          | 15.5      |                     | $0.65\pm 0.1$ | $5.0\pm 0.5$  |
| SKRI0912           | 11.0         | 17.5      |                     | $0.80\pm 0.1$ | $5.0\pm 0.5$  |
| SKRI1012           | 12.5         | 16.0      |                     | $0.80\pm 0.1$ | $5.0\pm 0.5$  |



## 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        | $\mu\text{H}$ | —                    | KHzN              | $\Omega$           | mA                 |
| Symbol       | L             | —                    | —                 | DCR                | $I_r$              |
| 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        | $\mu\text{H}$ | —                    | KHzN              | $\Omega$           | mA                 |
| Symbol       | L             | —                    | —                 | DCR                | I <sub>r</sub>     |
| 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        | $\mu$ H    | —                    | KHzN              | $\Omega$           | 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                |

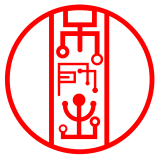
Note: Inductance deviation code is: K or M, K:±10%, M:±20%.



## SKRI0810 TYPE

| Part Number  | Inductance    | Inductance Tolerance | L Test Conditions | Max. DC Resistance | Max. Rated Current |
|--------------|---------------|----------------------|-------------------|--------------------|--------------------|
| Units        | $\mu\text{H}$ | —                    | KHzN              | $\Omega$           | mA                 |
| Symbol       | L             | —                    | —                 | DCR                | I <sub>r</sub>     |
| 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        | $\mu$ H    | –                    | KHzN              | $\Omega$           | mA                 |
| Symbol       | L          | –                    | –                 | DCR                | Ir                 |
| SKRI0912-132 | 1000-1500  |                      | 1/0.25            | $1.20 \pm 0.05$    | 400                |
| SKRI0912-142 | 1000-1500  |                      | 1/0.25            | $1.50 \pm 0.05$    | 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        | $\mu$ H    | –                    | KHzN              | $\Omega$           | 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%.