



## Surface Mount Power Inductors

### FEATURES

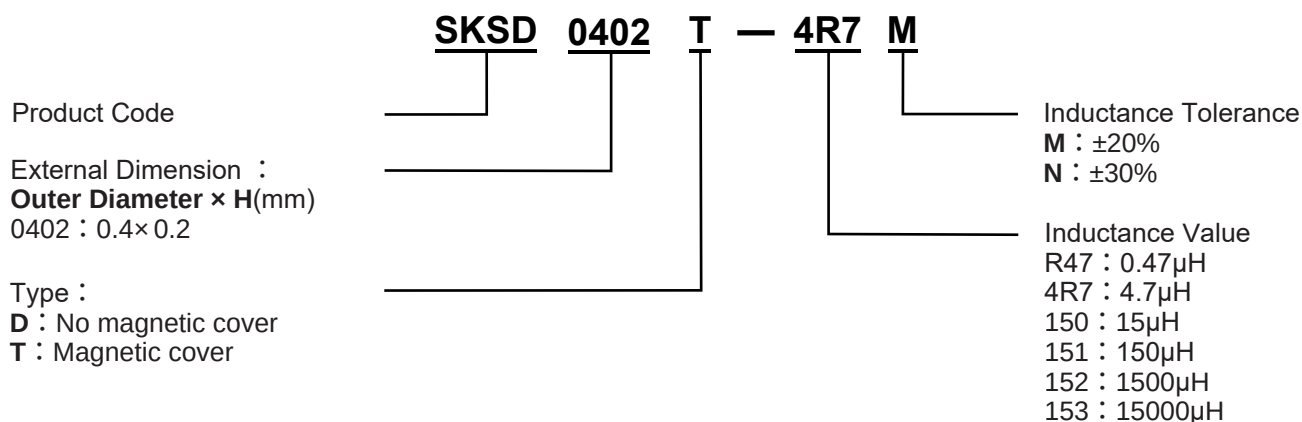
- Excellent high saturation resistance
- Magnetic shield structure
- Low DC resistance, high current resistance
- Small volume, thin thickness
- High storage energy, most suitable for all types of DC-DC converters

### APPLICATIONS

- Computer display board, laptop, post-deflection acceleration electrode, after attention programming, etc



### PRODUCT IDENTIFICATION



### SHAPE AND DIMENSIONS

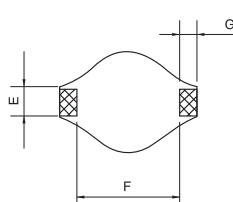
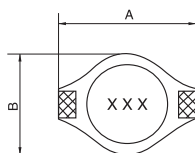
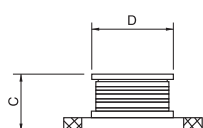


Fig.1 : Type D (No magnetic cover)

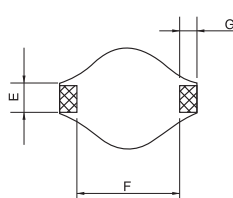
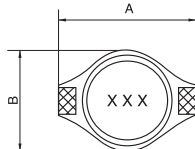
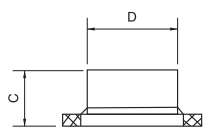
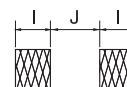
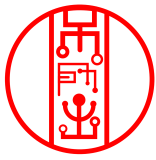


Fig.2 : Type T (Magnetic cover)



Recommended Pad Size



Units: mm

| Type Specification | Product Size |       |       |      |      |      |      | Recommended Pad Size |      | Outline Structure |
|--------------------|--------------|-------|-------|------|------|------|------|----------------------|------|-------------------|
|                    | A Max        | B Max | C Max | D    | E    | F    | G    | I                    | J    |                   |
| SKSD0402D          | 6.60         | 4.45  | 2.92  | 4.00 | 1.27 | 4.43 | 1.02 | 1.40                 | 4.06 | Fig.1             |
| SKSD0402T          | 6.60         | 4.45  | 2.92  | 4.00 | 1.27 | 4.43 | 1.02 | 1.40                 | 4.06 | Fig.2             |
| SKSD0804D          | 12.95        | 9.40  | 5.21  | 8.38 | 2.54 | 7.62 | 2.54 | 2.92                 | 7.37 | Fig.1             |
| SKSD0804T          | 12.95        | 9.40  | 5.21  | 8.38 | 2.54 | 7.62 | 2.54 | 2.92                 | 7.37 | Fig.2             |
| SKSD1306D          | 18.54        | 15.24 | 7.11  | 12.7 | 2.54 | 12.7 | 2.54 | 2.92                 | 7.37 | Fig.1             |
| SKSD1306T          | 18.54        | 15.24 | 7.11  | 12.7 | 2.54 | 12.7 | 2.54 | 2.92                 | 7.37 | Fig.2             |

## SPECIFICATIONS

### SKSD0402D TYPE

| Part Number   | Inductance | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|---------------|------------|----------------------|--------------|--------------------|----------------|
| Units         | μH         | -                    | KHz/V        | Ω                  | mA             |
| Symbol        | L          | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD0402D-1R0 | 1.0        | M、N                  | 100/0.25     | 0.050              | 2900           |
| SKSD0402D-1R5 | 1.5        | M、N                  | 100/0.25     | 0.055              | 2600           |
| SKSD0402D-2R2 | 2.2        | M、N                  | 100/0.25     | 0.070              | 2300           |
| SKSD0402D-3R3 | 3.3        | M、N                  | 100/0.25     | 0.080              | 2000           |
| SKSD0402D-4R7 | 4.7        | M、N                  | 100/0.25     | 0.090              | 1500           |
| SKSD0402D-6R8 | 6.8        | M、N                  | 100/0.25     | 0.130              | 1200           |
| SKSD0402D-100 | 10         | M、N                  | 100/0.25     | 0.160              | 1100           |
| SKSD0402D-150 | 15         | M、N                  | 100/0.25     | 0.230              | 900            |
| SKSD0402D-220 | 22         | M、N                  | 100/0.25     | 0.370              | 700            |
| SKSD0402D-330 | 33         | M、N                  | 100/0.25     | 0.510              | 580            |
| SKSD0402D-470 | 47         | M、N                  | 100/0.25     | 0.760              | 500            |
| SKSD0402D-680 | 68         | M、N                  | 100/0.25     | 1.10               | 400            |
| SKSD0402D-101 | 100        | M、N                  | 100/0.25     | 2.00               | 310            |
| SKSD0402D-151 | 150        | M、N                  | 100/0.25     | 3.50               | 270            |
| SKSD0402D-221 | 220        | M、N                  | 100/0.25     | 4.00               | 220            |
| SKSD0402D-331 | 330        | M、N                  | 100/0.25     | 5.50               | 180            |
| SKSD0402D-471 | 470        | M、N                  | 100/0.25     | 7.50               | 160            |
| SKSD0402D-681 | 680        | M、N                  | 100/0.25     | 15.0               | 140            |
| SKSD0402D-102 | 1000       | M、N                  | 100/0.25     | 20.0               | 100            |



### SKSD0402T TYPE

| Part Number   | Inductance    | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|---------------|---------------|----------------------|--------------|--------------------|----------------|
| Units         | $\mu\text{H}$ | -                    | KHz/V        | $\Omega$           | mA             |
| Symbol        | L             | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD0402T-1R0 | 1.0           | M、N                  | 100/0.25     | 0.040              | 1400           |
| SKSD0402T-1R5 | 1.5           | M、N                  | 100/0.25     | 0.045              | 1300           |
| SKSD0402T-2R2 | 2.2           | M、N                  | 100/0.25     | 0.050              | 1100           |
| SKSD0402T-3R3 | 3.3           | M、N                  | 100/0.25     | 0.055              | 1000           |
| SKSD0402T-4R7 | 4.7           | M、N                  | 100/0.25     | 0.065              | 760            |
| SKSD0402T-6R8 | 6.8           | M、N                  | 100/0.25     | 0.090              | 630            |
| SKSD0402T-100 | 10            | M、N                  | 100/0.25     | 0.110              | 580            |
| SKSD0402T-150 | 15            | M、N                  | 100/0.25     | 0.150              | 500            |
| SKSD0402T-220 | 22            | M、N                  | 100/0.25     | 0.250              | 450            |
| SKSD0402T-330 | 33            | M、N                  | 100/0.25     | 0.350              | 340            |
| SKSD0402T-470 | 47            | M、N                  | 100/0.25     | 0.450              | 300            |
| SKSD0402T-680 | 68            | M、N                  | 100/0.25     | 0.550              | 250            |
| SKSD0402T-101 | 100           | M、N                  | 100/0.25     | 0.765              | 230            |
| SKSD0402T-151 | 150           | M、N                  | 100/0.25     | 6.00               | 200            |
| SKSD0402T-221 | 220           | M、N                  | 100/0.25     | 7.00               | 170            |
| SKSD0402T-331 | 330           | M、N                  | 100/0.25     | 10.0               | 150            |
| SKSD0402T-471 | 470           | M、N                  | 100/0.25     | 15.0               | 120            |
| SKSD0402T-681 | 680           | M、N                  | 100/0.25     | 20.0               | 100            |
| SKSD0402T-102 | 1000          | M、N                  | 100/0.25     | 25.0               | 70             |

### SKSD0804D TYPE

| Part Number   | Inductance    | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|---------------|---------------|----------------------|--------------|--------------------|----------------|
| Units         | $\mu\text{H}$ | -                    | KHz/V        | $\Omega$           | mA             |
| Symbol        | L             | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD0804D-1R0 | 1.0           | M、N                  | 100/0.25     | 0.009              | 9000           |
| SKSD0804D-1R5 | 1.5           | M、N                  | 100/0.25     | 0.010              | 8000           |
| SKSD0804D-2R2 | 2.2           | M、N                  | 100/0.25     | 0.012              | 7000           |
| SKSD0804D-3R3 | 3.3           | M、N                  | 100/0.25     | 0.015              | 6400           |
| SKSD0804D-4R7 | 4.7           | M、N                  | 100/0.25     | 0.018              | 5400           |



| Part Number   | Inductance    | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|---------------|---------------|----------------------|--------------|--------------------|----------------|
| Units         | $\mu\text{H}$ | -                    | KHz/V        | $\Omega$           | mA             |
| Symbol        | L             | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD0804D-6R8 | 6.8           | M、N                  | 100/0.25     | 0.027              | 4600           |
| SKSD0804D-100 | 10            | M、N                  | 100/0.25     | 0.038              | 3800           |
| SKSD0804D-150 | 15            | M、N                  | 100/0.25     | 0.060              | 3000           |
| SKSD0804D-220 | 22            | M、N                  | 100/0.25     | 0.085              | 2600           |
| SKSD0804D-330 | 33            | M、N                  | 100/0.25     | 0.100              | 2000           |
| SKSD0804D-470 | 47            | M、N                  | 100/0.25     | 0.140              | 1600           |
| SKSD0804D-680 | 68            | M、N                  | 100/0.25     | 0.200              | 1400           |
| SKSD0804D-101 | 100           | M、N                  | 100/0.25     | 0.280              | 1200           |
| SKSD0804D-151 | 150           | M、N                  | 100/0.25     | 0.500              | 1000           |
| SKSD0804D-221 | 220           | M、N                  | 100/0.25     | 0.610              | 800            |
| SKSD0804D-331 | 330           | M、N                  | 100/0.25     | 1.02               | 600            |
| SKSD0804D-471 | 470           | M、N                  | 100/0.25     | 1.27               | 500            |
| SKSD0804D-681 | 680           | M、N                  | 100/0.25     | 2.02               | 400            |
| SKSD0804D-102 | 1000          | M、N                  | 100/0.25     | 3.00               | 300            |

### SKSD0804T TYPE

| Part Number   | Inductance    | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|---------------|---------------|----------------------|--------------|--------------------|----------------|
| Units         | $\mu\text{H}$ | -                    | KHz/V        | $\Omega$           | mA             |
| Symbol        | L             | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD0804T-1R0 | 1.0           | M、N                  | 100/0.25     | 0.021              | 5600           |
| SKSD0804T-1R5 | 1.5           | M、N                  | 100/0.25     | 0.022              | 5200           |
| SKSD0804T-2R2 | 2.2           | M、N                  | 100/0.25     | 0.032              | 5000           |
| SKSD0804T-3R3 | 3.3           | M、N                  | 100/0.25     | 0.039              | 3900           |
| SKSD0804T-4R7 | 4.7           | M、N                  | 100/0.25     | 0.054              | 3200           |
| SKSD0804T-6R8 | 6.8           | M、N                  | 100/0.25     | 0.075              | 2800           |
| SKSD0804T-100 |               | M、N                  | 100/0.25     | 0.101              | 2400           |
| SKSD0804T-150 | 15            | M、N                  | 100/0.25     | 0.150              | 2000           |
| SKSD0804T-220 | 22            | M、N                  | 100/0.25     | 0.207              | 1600           |
| SKSD0804T-330 | 33            | M、N                  | 100/0.25     | 0.334              | 1400           |
| SKSD0804T-470 | 47            | M、N                  | 100/0.25     | 0.472              | 1000           |



### SKSD1306D TYPE

| Part Number    | Inductance | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|----------------|------------|----------------------|--------------|--------------------|----------------|
| Units          | μH         | -                    | KHz/V        | Ω                  | mA             |
| Symbol         | L          | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD01306D-1R0 | 1.0        | M、N                  | 100/0.25     | 0.009              | 20000          |
| SKSD01306D-2R2 | 2.2        | M、N                  | 100/0.25     | 0.014              | 16000          |
| SKSD01306D-3R3 | 3.3        | M、N                  | 100/0.25     | 0.015              | 14000          |
| SKSD01306D-5R6 | 5.6        | M、N                  | 100/0.25     | 0.020              | 12000          |
| SKSD01306D-100 | 10         | M、N                  | 100/0.25     | 0.031              | 10000          |
| SKSD01306D-150 | 15         | M、N                  | 100/0.25     | 0.036              | 8000           |
| SKSD01306D-220 | 22         | M、N                  | 100/0.25     | 0.047              | 7000           |
| SKSD01306D-330 | 33         | M、N                  | 100/0.25     | 0.066              | 5500           |
| SKSD01306D-470 | 47         | M、N                  | 100/0.25     | 0.086              | 4500           |
| SKSD01306D-680 | 68         | M、N                  | 100/0.25     | 0.130              | 3500           |
| SKSD01306D-101 | 100        | M、N                  | 100/0.25     | 0.190              | 3000           |
| SKSD01306D-151 | 150        | M、N                  | 100/0.25     | 0.320              | 2600           |
| SKSD01306D-221 | 220        | M、N                  | 100/0.25     | 0.380              | 2400           |
| SKSD01306D-331 | 330        | M、N                  | 100/0.25     | 0.560              | 1900           |
| SKSD01306D-471 | 470        | M、N                  | 100/0.25     | 0.850              | 1400           |
| SKSD01306D-681 | 680        | M、N                  | 100/0.25     | 1.10               | 1200           |
| SKSD01306D-102 | 1000       | M、N                  | 100/0.25     | 1.80               | 1000           |
| SKSD01306D-202 | 2000       | M、N                  | 100/0.25     | 4.50               | 300            |

### SKSD1306T TYPE

| Part Number    | Inductance | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|----------------|------------|----------------------|--------------|--------------------|----------------|
| Units          | μH         | -                    | KHz/V        | Ω                  | mA             |
| Symbol         | L          | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD01306T-100 | 10         | M、N                  | 100/0.25     | 0.040              | 8000           |
| SKSD01306T-150 | 15         | M、N                  | 100/0.25     | 0.048              | 7000           |
| SKSD01306T-220 | 22         | M、N                  | 100/0.25     | 0.059              | 6000           |
| SKSD01306T-330 | 33         | M、N                  | 100/0.25     | 0.075              | 5000           |
| SKSD01306T-470 | 47         | M、N                  | 100/0.25     | 0.097              | 4000           |



## SKSD Series

| Part Number    | Inductance | Inductance Tolerance | L Test Freq. | Max. DC Resistance | Rated Current  |
|----------------|------------|----------------------|--------------|--------------------|----------------|
| Units          | μH         | -                    | KHz/V        | Ω                  | mA             |
| Symbol         | L          | -                    | Freq         | DCR                | I <sub>r</sub> |
| SKSD01306T-680 | 68         | M、N                  | 100/0.25     | 0.138              | 3000           |
| SKSD01306T-101 | 100        | M、N                  | 100/0.25     | 0.207              | 2400           |
| SKSD01306T-151 | 150        | M、N                  | 100/0.25     | 0.293              | 2100           |
| SKSD01306T-221 | 220        | M、N                  | 100/0.25     | 0.470              | 1900           |
| SKSD01306T-331 | 330        | M、N                  | 100/0.25     | 0.780              | 1100           |
| SKSD01306T-471 | 470        | M、N                  | 100/0.25     | 1.08               | 1000           |
| SKSD01306T-681 | 680        | M、N                  | 100/0.25     | 1.40               | 960            |
| SKSD01306T-102 | 1000       | M、N                  | 100/0.25     | 2.01               | 800            |