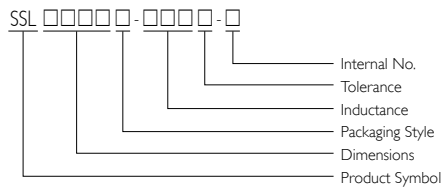


## SMD Power Inductors

## SSL0400 Series

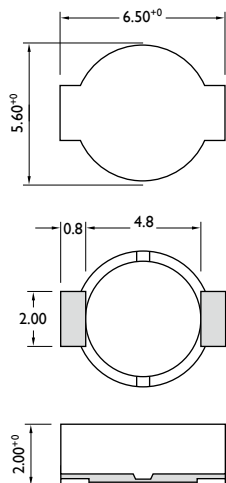


## PRODUCT IDENTIFICATION



- Packaging: T = Tape and Reel, B = Bulk
- Internal No.: N = Lead-Free

## SHAPES AND DIMENSIONS



Dimensions: mm

## APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

## FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

## ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|----------------------------|--------------------------|------------------------------------|----------------|-----------------|
| SSL0400T-1R0M-N | 1.0                        | 20                       | 0.05                               | 2.50           | 2.30            |
| SSL0400T-1R5M-N | 1.5                        | 20                       | 0.06                               | 2.20           | 2.10            |
| SSL0400T-2R2M-N | 2.2                        | 20                       | 0.07                               | 1.80           | 1.70            |
| SSL0400T-3R3M-N | 3.3                        | 20                       | 0.12                               | 1.40           | 1.30            |
| SSL0400T-4R7M-N | 4.7                        | 20                       | 0.15                               | 1.20           | 1.10            |
| SSL0400T-6R8M-N | 6.8                        | 20                       | 0.20                               | 1.10           | 1.00            |
| SSL0400T-100M-N | 10                         | 20                       | 0.30                               | 1.00           | 0.90            |
| SSL0400T-150M-N | 15                         | 20                       | 0.40                               | 0.80           | 0.70            |
| SSL0400T-220M-N | 22                         | 20                       | 0.54                               | 0.60           | 0.50            |
| SSL0400T-330M-N | 33                         | 20                       | 0.74                               | 0.50           | 0.45            |
| SSL0400T-470M-N | 47                         | 20                       | 1.10                               | 0.45           | 0.40            |
| SSL0400T-680M-N | 68                         | 20                       | 1.60                               | 0.35           | 0.35            |
| SSL0400T-101M-N | 100                        | 20                       | 2.30                               | 0.30           | 0.30            |
| SSL0400T-151M-N | 150                        | 20                       | 3.50                               | 0.25           | 0.25            |
| SSL0400T-221M-N | 220                        | 20                       | 5.70                               | 0.20           | 0.18            |
| SSL0400T-331M-N | 330                        | 20                       | 8.20                               | 0.16           | 0.16            |
| SSL0400T-471M-N | 470                        | 20                       | 10.8                               | 0.14           | 0.12            |
| SSL0400T-681M-N | 680                        | 20                       | 17.2                               | 0.12           | 0.10            |
| SSL0400T-102M-N | 1000                       | 20                       | 22.6                               | 0.08           | 0.08            |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

\*\*\* $\Delta T$  = 40 °C Rise Typ at I<sub>rms</sub>.

\*\*Inductance Drop = 10% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C

# SSL0402 Series

## SMD Power Inductors

### APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

### FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

### ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm\%$ ) | SRF<br>(MHz) Typ. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|----------------------------|--------------------------|-------------------|------------------------------------|----------------|-----------------|
| SSL0402T-1R0M-N | 1.0                        | 20                       | 130               | 0.05                               | 2.90           | 2.90            |
| SSL0402T-1R5M-N | 1.5                        | 20                       | 115               | 0.05                               | 2.60           | 2.80            |
| SSL0402T-2R2M-N | 2.2                        | 20                       | 90                | 0.07                               | 2.30           | 2.40            |
| SSL0402T-3R3M-N | 3.3                        | 20                       | 70                | 0.08                               | 2.00           | 2.00            |
| SSL0402T-4R7M-N | 4.7                        | 20                       | 50                | 0.09                               | 1.50           | 1.50            |
| SSL0402T-6R8M-N | 6.8                        | 20                       | 45                | 0.13                               | 1.20           | 1.40            |
| SSL0402T-100M-N | 10                         | 20                       | 35                | 0.16                               | 1.10           | 1.10            |
| SSL0402T-150M-N | 15                         | 20                       | 30                | 0.23                               | 0.90           | 1.20            |
| SSL0402T-220M-N | 22                         | 20                       | 20                | 0.37                               | 0.70           | 0.80            |
| SSL0402T-330M-N | 33                         | 20                       | 15                | 0.51                               | 0.58           | 0.60            |
| SSL0402T-470M-N | 47                         | 20                       | 14                | 0.64                               | 0.50           | 0.50            |
| SSL0402T-680M-N | 68                         | 20                       | 11                | 0.86                               | 0.40           | 0.40            |
| SSL0402T-101M-N | 100                        | 20                       | 9.0               | 1.27                               | 0.31           | 0.30            |
| SSL0402T-151M-N | 150                        | 20                       | 6.0               | 2.00                               | 0.27           | 0.25            |
| SSL0402T-221M-N | 220                        | 20                       | 5.5               | 3.11                               | 0.22           | 0.20            |
| SSL0402T-331M-N | 330                        | 20                       | 5.0               | 3.80                               | 0.18           | 0.16            |
| SSL0402T-471M-N | 470                        | 20                       | 4.0               | 5.06                               | 0.16           | 0.15            |
| SSL0402T-681M-N | 680                        | 20                       | 3.0               | 9.20                               | 0.14           | 0.12            |
| SSL0402T-102M-N | 1000                       | 20                       | 2.0               | 13.8                               | 0.10           | 0.07            |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

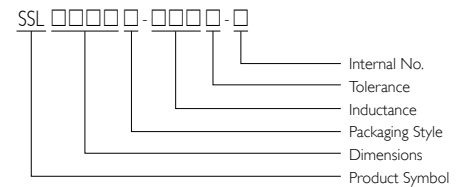
\*\*\* $\Delta T$  = 30 °C Rise Typ at I<sub>rms</sub>.

\*\*Inductance Drop = 20% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C



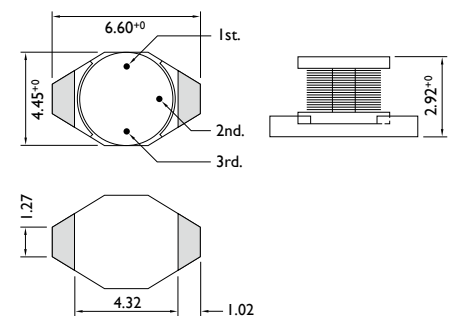
### PRODUCT IDENTIFICATION



■ Packaging: T = Tape and Reel, B = Bulk

■ Internal No.: N = Lead-Free

### SHAPES AND DIMENSIONS



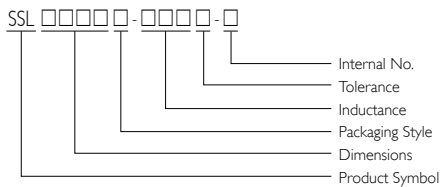
Dimensions: mm

## SMD Power Inductors

## SSL0614 Series

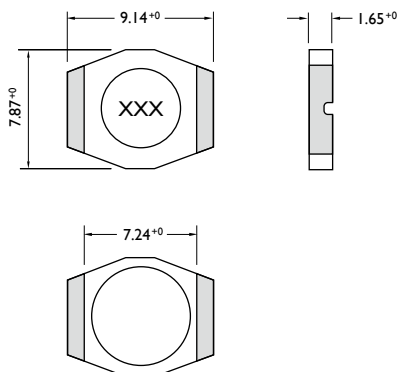


## PRODUCT IDENTIFICATION



- Packaging: T = Tape and Reel, B = Bulk
- Internal No.: N = Lead-Free

## SHAPES AND DIMENSIONS



Dimensions: mm

## APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

## FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

## ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm\%$ ) | DC RESISTANCE<br>( $\Omega$ ) Max. | I <sub>rms</sub> **<br>(A) |
|-----------------|----------------------------|--------------------------|------------------------------------|----------------------------|
| SSL0614T-4R7M-N | 4.7                        | 20                       | 0.145                              | 1.60                       |
| SSL0614T-6R8M-N | 6.8                        | 20                       | 0.165                              | 1.30                       |
| SSL0614T-100M-N | 10                         | 20                       | 0.240                              | 1.00                       |
| SSL0614T-150M-N | 15                         | 20                       | 0.300                              | 0.90                       |
| SSL0614T-220M-N | 22                         | 20                       | 0.420                              | 0.70                       |
| SSL0614T-330M-N | 33                         | 20                       | 0.550                              | 0.60                       |
| SSL0614T-470M-N | 47                         | 20                       | 0.765                              | 0.40                       |
| SSL0614T-680M-N | 68                         | 20                       | 1.10                               | 0.40                       |
| SSL0614T-101M-N | 100                        | 20                       | 1.60                               | 0.30                       |
| SSL0614T-151M-N | 150                        | 20                       | 2.50                               | 0.25                       |
| SSL0614T-221M-N | 220                        | 20                       | 3.65                               | 0.22                       |
| SSL0614T-331M-N | 330                        | 20                       | 4.65                               | 0.18                       |
| SSL0614T-471M-N | 470                        | 20                       | 6.75                               | 0.14                       |
| SSL0614T-681M-N | 680                        | 20                       | 9.15                               | 0.12                       |
| SSL0614T-102M-N | 1000                       | 20                       | 14.2                               | 0.10                       |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

\*\*Inductance Drop = 10% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C

# SSL0802 Series

## SMD Power Inductors

### APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

### FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

### ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm$ %) | SRF<br>(MHz) Typ. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|----------------------------|-------------------------|-------------------|------------------------------------|----------------|-----------------|
| SSL0802T-100M-N | 10                         | 20                      | 35                | 0.09                               | 2.40           | 2.00            |
| SSL0802T-150M-N | 15                         | 20                      | 33                | 0.12                               | 2.00           | 1.50            |
| SSL0802T-220M-N | 22                         | 20                      | 25                | 0.19                               | 1.60           | 1.30            |
| SSL0802T-330M-N | 33                         | 20                      | 19                | 0.25                               | 1.40           | 1.10            |
| SSL0802T-470M-N | 47                         | 20                      | 14                | 0.32                               | 1.00           | 0.80            |
| SSL0802T-680M-N | 68                         | 20                      | 12                | 0.55                               | 0.90           | 0.70            |
| SSL0802T-101M-N | 100                        | 20                      | 10                | 0.70                               | 0.70           | 0.60            |
| SSL0802T-151M-N | 150                        | 20                      | 8.0               | 1.00                               | 0.60           | 0.50            |
| SSL0802T-221M-N | 220                        | 20                      | 6.0               | 1.60                               | 0.50           | 0.40            |
| SSL0802T-331M-N | 330                        | 20                      | 5.0               | 2.20                               | 0.40           | 0.30            |
| SSL0802T-471M-N | 470                        | 20                      | 4.0               | 3.30                               | 0.30           | 0.20            |
| SSL0802T-681M-N | 680                        | 20                      | 3.0               | 4.40                               | 0.20           | 0.10            |
| SSL0802T-102M-N | 1000                       | 20                      | 2.5               | 7.00                               | 0.10           | 0.05            |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

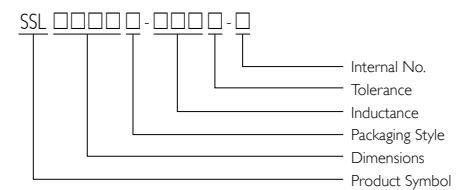
\*\*\* $\Delta T$  = 30 °C Rise Typ at I<sub>rms</sub>.

\*\*Inductance Drop = 20% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C



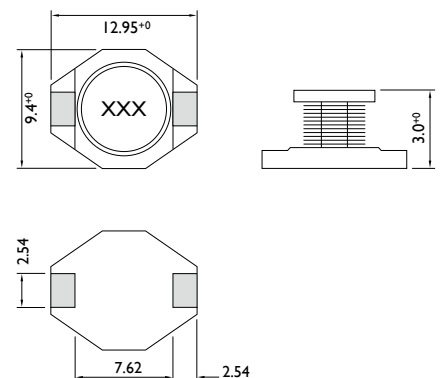
### PRODUCT IDENTIFICATION



■ Packaging: T = Tape and Reel, B = Bulk

■ Internal No.: N = Lead-Free

### SHAPES AND DIMENSIONS



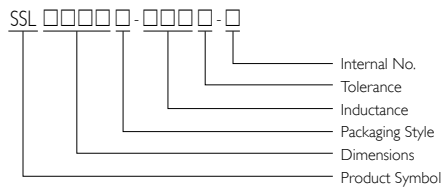
Dimensions: mm

## SMD Power Inductors

## SSL0804 Series

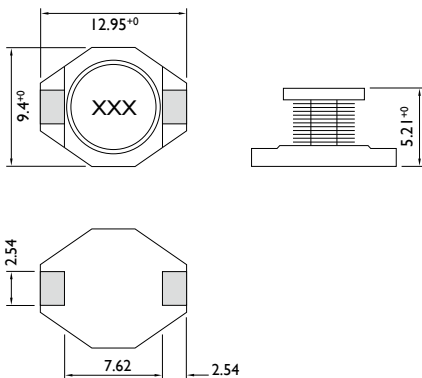


## PRODUCT IDENTIFICATION



- Packaging: T = Tape and Reel, B = Bulk
- Internal No.: N = Lead-Free

## SHAPES AND DIMENSIONS



Dimensions: mm

## APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

## FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

## ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm\%$ ) | SRF<br>(MHz) Typ. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|----------------------------|--------------------------|-------------------|------------------------------------|----------------|-----------------|
| SSL0804T-1R0M-N | 1.0                        | 20                       | 100               | 0.009                              | 9.0            | 6.8             |
| SSL0804T-1R5M-N | 1.5                        | 20                       | 90                | 0.010                              | 8.0            | 6.4             |
| SSL0804T-2R2M-N | 2.2                        | 20                       | 80                | 0.012                              | 7.0            | 6.1             |
| SSL0804T-3R3M-N | 3.3                        | 20                       | 65                | 0.015                              | 6.4            | 5.4             |
| SSL0804T-4R7M-N | 4.7                        | 20                       | 45                | 0.018                              | 5.4            | 4.8             |
| SSL0804T-6R8M-N | 6.8                        | 20                       | 38                | 0.027                              | 4.6            | 4.4             |
| SSL0804T-100M-N | 10                         | 20                       | 30                | 0.038                              | 3.8            | 3.9             |
| SSL0804T-150M-N | 15                         | 20                       | 27                | 0.046                              | 3.0            | 3.1             |
| SSL0804T-220M-N | 22                         | 20                       | 19                | 0.085                              | 2.6            | 2.7             |
| SSL0804T-330M-N | 33                         | 20                       | 15                | 0.100                              | 2.0            | 2.1             |
| SSL0804T-470M-N | 47                         | 20                       | 12                | 0.140                              | 1.6            | 1.8             |
| SSL0804T-680M-N | 68                         | 20                       | 10                | 0.200                              | 1.4            | 1.5             |
| SSL0804T-101M-N | 100                        | 20                       | 9.0               | 0.280                              | 1.2            | 1.3             |
| SSL0804T-151M-N | 150                        | 20                       | 6.0               | 0.400                              | 1.0            | 1.0             |
| SSL0804T-221M-N | 220                        | 20                       | 5.0               | 0.610                              | 0.8            | 0.8             |
| SSL0804T-331M-N | 330                        | 20                       | 4.5               | 1.020                              | 0.6            | 0.6             |
| SSL0804T-471M-N | 470                        | 20                       | 3.5               | 1.270                              | 0.5            | 0.5             |
| SSL0804T-681M-N | 680                        | 20                       | 2.5               | 2.020                              | 0.4            | 0.4             |
| SSL0804T-102M-N | 1000                       | 20                       | 2.0               | 3.000                              | 0.3            | 0.3             |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

\*\*\* $\Delta T$  = 15 °C Rise Typ at I<sub>rms</sub>.

\*\*Inductance Drop = 20% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C

# SSL0810 Series

## SMD Power Inductors

### APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

### FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

### ELECTRICAL CHARACTERISTICS

| PART NO.        | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm$ %) | SRF<br>(MHz) Typ. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-----------------|----------------------------|-------------------------|-------------------|------------------------------------|----------------|-----------------|
| SSL0810T-100M-N | 10                         | 20                      | 22                | 0.033                              | 8.0            | 3.5             |
| SSL0810T-150M-N | 15                         | 20                      | 18                | 0.042                              | 7.0            | 3.0             |
| SSL0810T-220M-N | 22                         | 20                      | 11                | 0.054                              | 5.5            | 2.5             |
| SSL0810T-330M-N | 33                         | 20                      | 9.0               | 0.08                               | 4.0            | 2.0             |
| SSL0810T-470M-N | 47                         | 20                      | 8.0               | 0.10                               | 3.8            | 1.6             |
| SSL0810T-680M-N | 68                         | 20                      | 7.0               | 0.17                               | 3.0            | 1.2             |
| SSL0810T-101M-N | 100                        | 20                      | 5.0               | 0.22                               | 2.5            | 1.2             |
| SSL0810T-151M-N | 150                        | 20                      | 4.0               | 0.34                               | 2.0            | 0.9             |
| SSL0810T-221M-N | 220                        | 20                      | 3.5               | 0.44                               | 1.6            | 0.7             |
| SSL0810T-331M-N | 330                        | 20                      | 2.5               | 0.70                               | 1.2            | 0.6             |
| SSL0810T-471M-N | 470                        | 20                      | 2.0               | 0.95                               | 1.0            | 0.3             |
| SSL0810T-681M-N | 680                        | 20                      | 2.0               | 1.20                               | 1.0            | 0.2             |
| SSL0810T-102M-N | 1000                       | 20                      | 1.5               | 2.00                               | 0.8            | 0.1             |

Note:

\*Inductance Tested at 100 KHz, 0.1 Vrms.

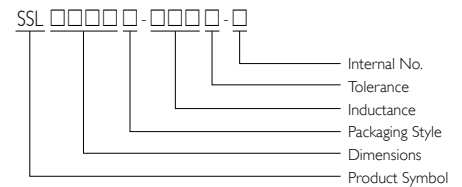
\*\*\* $\Delta T$  = 40 °C Rise Typ at Irms.

\*\*Inductance Drop = 20% Typ. at Isat.

Operating Temperature Range: -40 °C to +85 °C



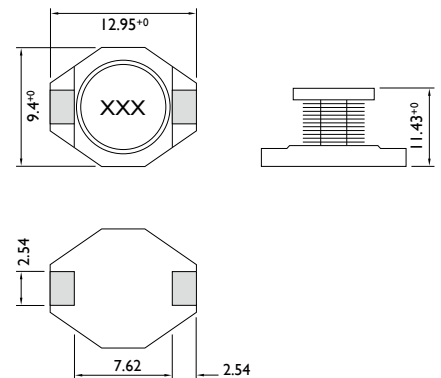
### PRODUCT IDENTIFICATION



■ Packaging: T = Tape and Reel, B = Bulk

■ Internal No.: N = Lead-Free

### SHAPES AND DIMENSIONS



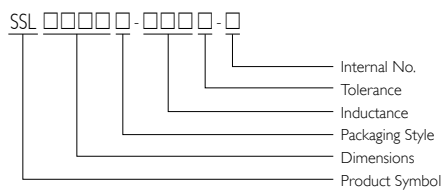
Dimensions: mm

## SMD Power Inductors

## SSL I 306 Series

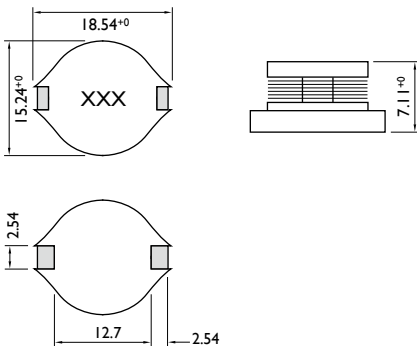


## PRODUCT IDENTIFICATION



- Packaging: T = Tape and Reel, B = Bulk
- Internal No.: N = Lead-Free

## SHAPES AND DIMENSIONS



Dimensions: mm

## APPLICATIONS

Notebook Computers, Step-up and Step-down Converters

Flash Memory Programmers, etc.

## FEATURES

High Energy Storage and Very Low Resistance

Smallest Size and High Performance

## ELECTRICAL CHARACTERISTICS

| PART NO.          | INDUCTANCE *<br>( $\mu$ H) | TOLERANCE<br>( $\pm\%$ ) | SRF<br>(MHz) Typ. | DC RESISTANCE<br>( $\Omega$ ) Max. | Isat **<br>(A) | Irms ***<br>(A) |
|-------------------|----------------------------|--------------------------|-------------------|------------------------------------|----------------|-----------------|
| SSL I 306T-1R0M-N | 1.0                        | 20                       | 80                | 0.011                              | 20             | 8.6             |
| SSL I 306T-2R2M-N | 2.2                        | 20                       | 80                | 0.014                              | 16             | 7.1             |
| SSL I 306T-3R3M-N | 3.3                        | 20                       | 60                | 0.016                              | 14             | 6.2             |
| SSL I 306T-5R6M-N | 5.6                        | 20                       | 40                | 0.022                              | 12             | 5.3             |
| SSL I 306T-100M-N | 10                         | 20                       | 30                | 0.032                              | 10             | 4.3             |
| SSL I 306T-150M-N | 15                         | 20                       | 22                | 0.036                              | 8.0            | 4.0             |
| SSL I 306T-220M-N | 22                         | 20                       | 20                | 0.047                              | 7.0            | 3.5             |
| SSL I 306T-330M-N | 33                         | 20                       | 15                | 0.066                              | 5.5            | 3.0             |
| SSL I 306T-470M-N | 47                         | 20                       | 9.0               | 0.087                              | 4.5            | 2.6             |
| SSL I 306T-680M-N | 68                         | 20                       | 8.0               | 0.13                               | 3.5            | 2.3             |
| SSL I 306T-101M-N | 100                        | 20                       | 7.0               | 0.19                               | 3.0            | 1.8             |
| SSL I 306T-151M-N | 150                        | 20                       | 6.0               | 0.25                               | 2.6            | 1.5             |
| SSL I 306T-221M-N | 220                        | 20                       | 5.0               | 0.38                               | 2.4            | 1.2             |
| SSL I 306T-331M-N | 330                        | 20                       | 4.0               | 0.56                               | 1.9            | 1.0             |
| SSL I 306T-471M-N | 470                        | 20                       | 3.0               | 0.85                               | 1.4            | 0.82            |
| SSL I 306T-681M-N | 680                        | 20                       | 2.5               | 1.20                               | 1.2            | 0.72            |
| SSL I 306T-102M-N | 1000                       | 20                       | 2.0               | 1.80                               | 1.0            | 0.56            |

Note:

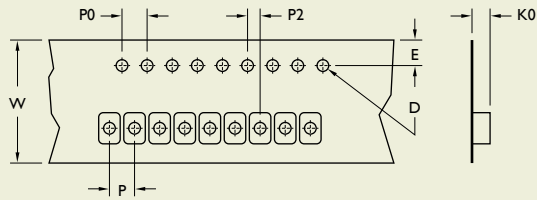
\*Inductance Tested at 100 KHz, 0.1 Vrms.

\*\*\* $\Delta T = 40^\circ\text{C}$  Rise Typ at I<sub>rms</sub>.

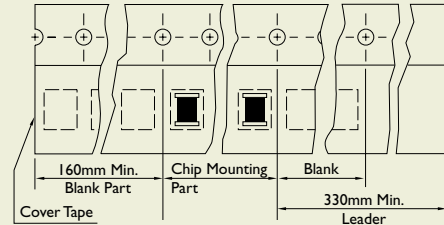
\*\*Inductance Drop = 20% Typ. at Isat.

Operating Temperature Range:  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$

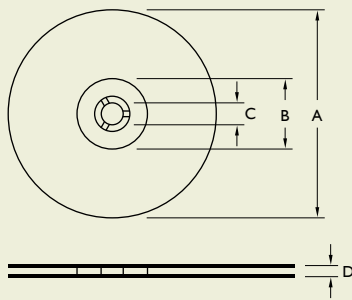
## TAPE DIMENSIONS



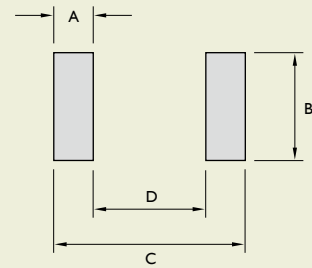
## TAPE MATERIAL



## REEL DIMENSIONS



## RECOMMENDED PATTERN



Dimensions: mm

| TYPE    | TAPE DIMENSIONS |      |      |    |    |    |    | RECOMMENDED PATTERN |      |       |       | REEL DIMENSIONS |     |    |      | QUANTITY/ REEL |       |
|---------|-----------------|------|------|----|----|----|----|---------------------|------|-------|-------|-----------------|-----|----|------|----------------|-------|
|         | K0              | D    | E    | W  | P  | P0 | P2 | A                   | B    | C     | D     | A               | B   | C  | D    | 178            | 330   |
| SSL04LP | 1.30            | 1.50 | 1.75 | 12 | 8  | 4  | 2  | 1.40                | 3.56 | 6.86  | 4.06  | 330             | 100 | 13 | 13.4 | -              | 3,500 |
|         |                 |      |      |    |    |    |    |                     |      |       |       | 178             | 60  |    | 13.2 | 1,000          | -     |
| SSL0400 | 1.85            | 1.50 | 1.75 | 12 | 8  | 4  | 2  | 1.40                | 3.56 | 6.86  | 4.06  | 330             | 100 | 13 | 13.4 | -              | 3,500 |
|         |                 |      |      |    |    |    |    |                     |      |       |       | 178             | 60  |    | 13.2 | 1,000          | -     |
| SSL0402 | 3.20            | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 1.40                | 3.56 | 6.86  | 4.06  | 330             | 100 | 13 | 13.4 | -              | 2,500 |
|         |                 |      |      |    |    |    |    |                     |      |       |       | 178             | 60  |    | 13.2 | 750            | -     |
| SSL0614 | 1.80            | 1.50 | 1.75 | 16 | 12 | 4  | 2  | 1.21                | 5.84 | 9.66  | 7.24  | 330             | 100 | 13 | 17.4 | -              | 2,500 |
| SSL0802 | 3.75            | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 2.92                | 2.79 | 13.21 | 7.34  | 330             | 100 | 13 | 24.4 | -              | 1,000 |
| SSL0804 | 5.40            | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 2.92                | 2.79 | 13.21 | 7.34  | 330             | 100 | 13 | 24.4 | -              | 750   |
| SSL0810 | 11.5            | 1.55 | 1.75 | 24 | 20 | 4  | 2  | 2.92                | 2.79 | 13.21 | 7.34  | 330             | 100 | 13 | 24.4 | -              | 225   |
| SSL1306 | 7.50            | 1.55 | 1.75 | 32 | 20 | 4  | 2  | 2.92                | 2.79 | 18.29 | 12.45 | 330             | 100 | 13 | 33.4 | -              | 250   |