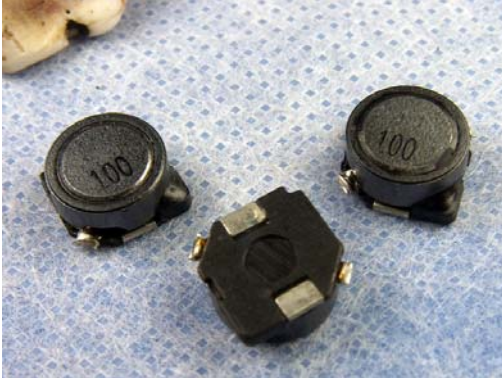


# SMD SHIELDED POWER INDUCTORS

COMPONENT

## PRODUCT IDENTIFICATION



### SLF6028 - 100 M

A B C

A : SMT Shielded Power Inductors

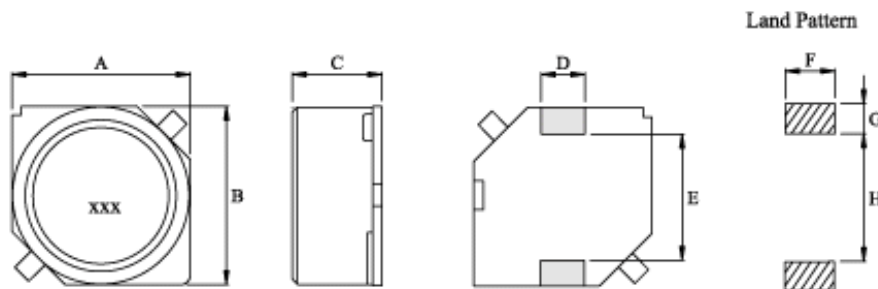
B : Inductance

C : Tolerance (K:10%,L:15%,M:20%,N:30%)

## APPLICATIONS

Computers, DC/DC converter, VCR Camera.

## SHAPES & DIMENSIONS



Unit In mm

| TYPE     | A<br>(Max) | B<br>(Max) | C<br>(Max) | D<br>±0.2 | E<br>(Max) | F   | G   | H   | I   |
|----------|------------|------------|------------|-----------|------------|-----|-----|-----|-----|
| SLF6028  | 6.2        | 6.2        | 3.0        | 1.8       | 3.0        | 2.2 | 1.8 | 2.5 | -   |
| SLF10145 | 10.1       | 10.1       | 4.5        | 3.0       | 2.0        | 6.0 | 3.2 | 2.5 | 5.6 |
| SLF12555 | 12.5       | 12.5       | 5.5        | 3.0       | 2.0        | 8.3 | 3.2 | 2.5 | 8.0 |
| SLF12565 | 12.5       | 12.5       | 6.5        | 3.0       | 2.0        | 8.3 | 3.2 | 2.5 | 8.0 |
| SLF12575 | 12.5       | 12.5       | 7.5        | 3.0       | 2.0        | 8.3 | 3.2 | 2.5 | 8.0 |

※Design as Customer's Requested Specifications.

# SMD SHIELDED POWER INDUCTORS

COMPONENT

## ELECTRICAL CHARACTERISTICS

### SLF 6028/10145/12555/12565/12575 SERIES

| Inductance |         | 6028           |                      |             | 10145          |                      |             | 12555          |                      |             |
|------------|---------|----------------|----------------------|-------------|----------------|----------------------|-------------|----------------|----------------------|-------------|
| Code       | (uH)    | Test Freq.(Hz) | RDC( $\Omega$ ) Max. | IDC(A) Max. | Test Freq.(Hz) | RDC( $\Omega$ ) Max. | IDC(A) Max. | Test Freq.(Hz) | RDC( $\Omega$ ) Max. | IDC(A) Max. |
| 6R0N       | 6.00    | -              | -                    | -           | -              | -                    | -           | 1K             | 0.0164               | 3.60        |
| 100M       | 10.00   | 1K             | 0.150                | 1.10        | 1K             | 0.0364               | 3.00        | 1K             | 0.0215               | 3.40        |
| 120M       | 12.00   | 1K             | 0.200                | 1.00        | -              | -                    | -           | -              | -                    | -           |
| 150M       | 15.00   | 1K             | 0.230                | 0.90        | 1K             | 0.0472               | 2.40        | 1K             | 0.0259               | 2.80        |
| 180M       | 18.00   | 1K             | 0.270                | 0.80        | -              | -                    | -           | -              | -                    | -           |
| 220M       | 22.00   | 1K             | 0.340                | 0.74        | 1K             | 0.0591               | 2.10        | 1K             | 0.0338               | 2.30        |
| 270M       | 27.00   | 1K             | 0.380                | 0.66        | -              | -                    | -           | --             | -                    | -           |
| 330M       | 33.00   | 1K             | 0.450                | 0.59        | 1K             | 0.0851               | 1.60        | 1K             | 0.0415               | 1.90        |
| 390M       | 39.00   | 1K             | 0.490                | 0.54        | -              | -                    | -           | -              | -                    | -           |
| 470M       | 47.00   | 1K             | 0.690                | 0.50        | 1K             | 0.100                | 1.40        | 1K             | 0.0618               | 1.60        |
| 560M       | 56.00   | 1K             | 0.780                | 0.46        | -              | -                    | -           | -              | -                    | -           |
| 680M       | 68.00   | 1K             | 1.070                | 0.42        | 1K             | 0.140                | 1.20        | 1K             | 0.0832               | 1.30        |
| 820M       | 82.00   | 1K             | 1.210                | 0.38        | -              | -                    | -           | -              | -                    | -           |
| 101M       | 100.00  | 1K             | 1.390                | 0.34        | 1K             | 0.200                | 1.00        | 1K             | 0.117                | 1.10        |
| 121M       | 120.00  | 1K             | 1.900                | 0.31        | -              | -                    | -           | -              | -                    | -           |
| 151M       | 150.00  | 1K             | 2.180                | 0.28        | 1K             | 0.350                | 0.79        | 1K             | 0.190                | 0.88        |
| 181M       | 180.00  | 1K             | 2.700                | 0.26        | -              | -                    | -           | -              | -                    | -           |
| 221M       | 220.00  | 1K             | 3.120                | 0.23        | 1K             | 0.470                | 0.65        | 1K             | 0.270                | 0.72        |
| 271M       | 270.00  | 1K             | 4.380                | 0.22        | -              | -                    | -           | -              | -                    | -           |
| 331M       | 330.00  | 1K             | 4.940                | 0.19        | 1K             | 0.680                | 0.54        | 1K             | 0.410                | 0.59        |
| 471M       | 470.00  | -              | -                    | -           | 1K             | 1.030                | 0.47        | 1K             | 0.520                | 0.49        |
| 681M       | 680.00  | -              | -                    | -           | 1K             | 1.600                | 0.38        | 1K             | 0.760                | 0.43        |
| 102M       | 1000.00 | -              | -                    | -           | 1K             | 2.800                | 0.32        | 1K             | 1.120                | 0.34        |
| 152M       | 1500.00 | -              | -                    | -           | 1K             | 3.400                | 0.22        | 1K             | 1.730                | 0.29        |

| Inductance |       | 12565          |                      |             | 12575          |                      |             |
|------------|-------|----------------|----------------------|-------------|----------------|----------------------|-------------|
| Code       | (uH)  | Test Freq.(Hz) | RDC( $\Omega$ ) Max. | IDC(A) Max. | Test Freq.(Hz) | RDC( $\Omega$ ) Max. | IDC(A) Max. |
| 1R2N       | 1.20  | -              | -                    | -           | 1K             | 0.0069               | 13.00       |
| 2R0N       | 2.00  | 1K             | 0.0117               | 10.00       | -              | -                    | -           |
| 2R7N       | 2.70  | -              | -                    | -           | 1K             | 0.0094               | 10.00       |
| 3R9N       | 3.90  | -              | -                    | -           | 1K             | 0.0104               | 9.00        |
| 4R2N       | 4.20  | 1K             | 0.0150               | 7.30        | -              | -                    | -           |
| 5R6N       | 5.60  | -              | -                    | -           | 1K             | 0.0116               | 7.80        |
| 6R8N       | 6.80  | -              | -                    | -           | 1K             | 0.0131               | 7.20        |
| 7R0N       | 7.00  | 1K             | 0.0177               | 5.70        | -              | -                    | -           |
| 100M       | 10.0  | 1K             | 0.0202               | 5.00        | 1K             | 0.0156               | 5.50        |
| 150M       | 15.0  | 1K             | 0.0237               | 4.20        | 1K             | 0.0184               | 4.70        |
| 220M       | 22.0  | 1K             | 0.0316               | 3.50        | 1K             | 0.0263               | 4.00        |
| 330M       | 33.0  | 1K             | 0.0406               | 2.80        | 1K             | 0.0395               | 3.20        |
| 470M       | 47.0  | 1K             | 0.0578               | 2.40        | 1K             | 0.0528               | 2.70        |
| 680M       | 68.0  | 1K             | 0.0787               | 2.00        | 1K             | 0.0778               | 2.00        |
| 101M       | 100.0 | 1K             | 0.123                | 1.60        | 1K             | 0.125                | 1.90        |
| 151M       | 150.0 | -              | -                    | -           | 1K             | 0.175                | 1.50        |
| 221M       | 220.0 | 1K             | 0.273                | 1.00        | 1K             | 0.258                | 1.30        |

※ Test Freq. : 1KHz/0.25V

※ Operating Temp. : - 40°C ~ +85°C

※ Inductance drop = 10% typ. at IDC.