

### ◆ Features

1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.
3. The products contain no lead and also support lead-free soldering.



### ◆ Applications

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

### ◆ Lead Free Part Numbering

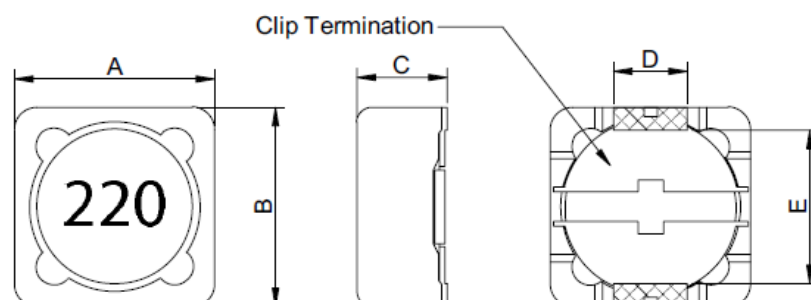
**SLH 1204 S 100 M T T**  
**(1) (2) (3) (4) (5) (6) (7)**

- (1) Series Type
- (2) Dimension: A X C
- (3) Material Code
- (4) Inductance: 2R2=2.2 $\mu$ H ;  
100=10 $\mu$ H; 101=100 $\mu$ H
- (5) Inductance Tolerance: M= $\pm$ 20%,N= $\pm$ 30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier



### ◆ Dimensions

| Series   | A(mm)          | B(mm)          | C(mm)    | D(mm)         | E(mm)         |
|----------|----------------|----------------|----------|---------------|---------------|
| SLH0703S | 7.3 $\pm$ 0.3  | 7.3 $\pm$ 0.3  | 3.5 Max. | 1.8 $\pm$ 0.2 | 5.0 $\pm$ 0.2 |
| SLH0704S | 7.3 $\pm$ 0.3  | 7.3 $\pm$ 0.3  | 4.5 Max. | 1.8 $\pm$ 0.2 | 5.0 $\pm$ 0.2 |
| SLH1204S | 12.0 $\pm$ 0.3 | 12.0 $\pm$ 0.3 | 5.0 Max. | 5.0 $\pm$ 0.2 | 7.6 $\pm$ 0.2 |
| SLH1205S | 12.0 $\pm$ 0.3 | 12.0 $\pm$ 0.3 | 6.0 Max. | 5.0 $\pm$ 0.2 | 7.6 $\pm$ 0.2 |
| SLH1207S | 12.0 $\pm$ 0.3 | 12.0 $\pm$ 0.3 | 8.0 Max. | 5.0 $\pm$ 0.2 | 7.6 $\pm$ 0.2 |



## ◆ Specification

| Part Number           | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------------|--------------------------|------------------------|---------------------------|-----------------|
| <b>SLH0703 Series</b> |                          |                        |                           |                 |
| SLH0703SR47MTT        | 0.47 $\pm$ 20%           | 1KHz/1V                | 17                        | 10.50           |
| SLH0703S1R0MTT        | 1.0 $\pm$ 20%            | 1KHz/1V                | 17                        | 7.00            |
| SLH0703S1R5MTT        | 1.5 $\pm$ 20%            | 1KHz/1V                | 17                        | 6.00            |
| SLH0703S2R2MTT        | 2.2 $\pm$ 20%            | 1KHz/1V                | 25                        | 4.50            |
| SLH0703S3R3MTT        | 3.3 $\pm$ 20%            | 1KHz/1V                | 25                        | 4.20            |
| SLH0703S4R7MTT        | 4.7 $\pm$ 20%            | 1KHz/1V                | 58                        | 3.65            |
| SLH0703S6R8MTT        | 6.8 $\pm$ 20%            | 1KHz/1V                | 58                        | 3.00            |
| SLH0703S100MTT        | 10 $\pm$ 20%             | 1KHz/1V                | 69                        | 2.30            |
| SLH0703S120MTT        | 12 $\pm$ 20%             | 1KHz/1V                | 83                        | 2.20            |
| SLH0703S150MTT        | 15 $\pm$ 20%             | 1KHz/1V                | 108                       | 2.00            |
| SLH0703S180MTT        | 18 $\pm$ 20%             | 1KHz/1V                | 125                       | 1.80            |
| SLH0703S220MTT        | 22 $\pm$ 20%             | 1KHz/1V                | 158                       | 1.50            |
| SLH0703S330MTT        | 33 $\pm$ 20%             | 1KHz/1V                | 232                       | 1.20            |
| SLH0703S390MTT        | 39 $\pm$ 20%             | 1KHz/1V                | 282                       | 0.90            |
| SLH0703S400MTT        | 40 $\pm$ 20%             | 1KHz/1V                | 291                       | 0.90            |
| SLH0703S470MTT        | 47 $\pm$ 20%             | 1KHz/1V                | 374                       | 0.80            |
| SLH0703S560MTT        | 56 $\pm$ 20%             | 1KHz/1V                | 415                       | 0.70            |
| SLH0703S680MTT        | 68 $\pm$ 20%             | 1KHz/1V                | 432                       | 0.61            |
| SLH0703S820MTT        | 82 $\pm$ 20%             | 1KHz/1V                | 573                       | 0.55            |
| SLH0703S101MTT        | 100 $\pm$ 20%            | 1KHz/1V                | 656                       | 0.50            |
| SLH0703S151MTT        | 150 $\pm$ 20%            | 1KHz/1V                | 830                       | 0.46            |
| SLH0703S181MTT        | 180 $\pm$ 20%            | 1KHz/1V                | 913                       | 0.39            |
| SLH0703S221MTT        | 220 $\pm$ 20%            | 1KHz/1V                | 1370                      | 0.38            |
| SLH0703S271MTT        | 270 $\pm$ 20%            | 1KHz/1V                | 1917                      | 0.36            |
| SLH0703S331MTT        | 330 $\pm$ 20%            | 1KHz/1V                | 2175                      | 0.35            |
| SLH0703S471MTT        | 470 $\pm$ 20%            | 1KHz/1V                | 3469                      | 0.32            |
| SLH0703S681MTT        | 680 $\pm$ 20%            | 1KHz/1V                | 4756                      | 0.30            |
| SLH0703S821MTT        | 820 $\pm$ 20%            | 1KHz/1V                | 5810                      | 0.27            |
| SLH0703S102MTT        | 1000 $\pm$ 20%           | 1KHz/1V                | 8018                      | 0.23            |

## ◆ Specification

| Part Number           | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------------|--------------------------|------------------------|---------------------------|-----------------|
| <b>SLH0704 Series</b> |                          |                        |                           |                 |
| SLH0704S1R0MTT        | 1.0 $\pm$ 20%            | 1KHz/1V                | 12                        | 9.00            |
| SLH0704S1R2MTT        | 1.2 $\pm$ 20%            | 1KHz/1V                | 21                        | 8.00            |
| SLH0704S1R5MTT        | 1.5 $\pm$ 20%            | 1KHz/1V                | 25                        | 8.00            |
| SLH0704S1R8MTT        | 1.8 $\pm$ 20%            | 1KHz/1V                | 27                        | 7.00            |
| SLH0704S2R2MTT        | 2.2 $\pm$ 20%            | 1KHz/1V                | 29                        | 6.20            |
| SLH0704S2R7MTT        | 2.7 $\pm$ 20%            | 1KHz/1V                | 33                        | 5.50            |
| SLH0704S3R3MTT        | 3.3 $\pm$ 20%            | 1KHz/1V                | 37                        | 4.70            |
| SLH0704S4R7MTT        | 4.7 $\pm$ 20%            | 1KHz/1V                | 39                        | 3.50            |
| SLH0704S6R2MTT        | 6.2 $\pm$ 20%            | 1KHz/1V                | 42                        | 3.40            |
| SLH0704S6R8MTT        | 6.8 $\pm$ 20%            | 1KHz/1V                | 42                        | 3.40            |
| SLH0704S7R0MTT        | 7.0 $\pm$ 20%            | 1KHz/1V                | 43                        | 3.30            |
| SLH0704S7R7MTT        | 7.7 $\pm$ 20%            | 1KHz/1V                | 44                        | 3.10            |
| SLH0704S100MTT        | 10 $\pm$ 20%             | 1KHz/1V                | 46                        | 3.00            |
| SLH0704S150MTT        | 15 $\pm$ 20%             | 1KHz/1V                | 67                        | 2.50            |
| SLH0704S180MTT        | 18 $\pm$ 20%             | 1KHz/1V                | 83                        | 2.00            |
| SLH0704S220MTT        | 22 $\pm$ 20%             | 1KHz/1V                | 91                        | 1.95            |
| SLH0704S270MTT        | 27 $\pm$ 20%             | 1KHz/1V                | 106                       | 1.50            |
| SLH0704S330MTT        | 33 $\pm$ 20%             | 1KHz/1V                | 208                       | 1.20            |
| SLH0704S390MTT        | 39 $\pm$ 20%             | 1KHz/1V                | 249                       | 1.10            |
| SLH0704S470MTT        | 47 $\pm$ 20%             | 1KHz/1V                | 266                       | 1.00            |
| SLH0704S560MTT        | 56 $\pm$ 20%             | 1KHz/1V                | 291                       | 1.00            |
| SLH0704S680MTT        | 68 $\pm$ 20%             | 1KHz/1V                | 315                       | 0.90            |
| SLH0704S101MTT        | 100 $\pm$ 20%            | 1KHz/1V                | 506                       | 0.85            |
| SLH0704S121MTT        | 120 $\pm$ 20%            | 1KHz/1V                | 540                       | 0.85            |
| SLH0704S151MTT        | 150 $\pm$ 20%            | 1KHz/1V                | 730                       | 0.75            |
| SLH0704S171MTT        | 170 $\pm$ 20%            | 1KHz/1V                | 1079                      | 0.74            |
| SLH0704S181MTT        | 180 $\pm$ 20%            | 1KHz/1V                | 1121                      | 0.70            |
| SLH0704S221MTT        | 220 $\pm$ 20%            | 1KHz/1V                | 1162                      | 0.62            |
| SLH0704S271MTT        | 270 $\pm$ 20%            | 1KHz/1V                | 1245                      | 0.55            |
| SLH0704S331MTT        | 330 $\pm$ 20%            | 1KHz/1V                | 1245                      | 0.50            |
| SLH0704S391MTT        | 390 $\pm$ 20%            | 1KHz/1V                | 1494                      | 0.48            |
| SLH0704S471MTT        | 470 $\pm$ 20%            | 1KHz/1V                | 2158                      | 0.40            |

## ◆ Specification

| Part Number           | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------------|--------------------------|------------------------|---------------------------|-----------------|
| <b>SLH1204 Series</b> |                          |                        |                           |                 |
| SLH1204S3R9NTT        | 3.9 $\pm$ 30%            | 1V/100K                | 15                        | 6.50            |
| SLH1204S4R7NTT        | 4.7 $\pm$ 30%            | 1V/100K                | 18                        | 5.70            |
| SLH1204S6R8NTT        | 6.8 $\pm$ 30%            | 1V/100K                | 23                        | 4.90            |
| SLH1204S8R2NTT        | 8.2 $\pm$ 30%            | 1V/100K                | 26                        | 4.60            |
| SLH1204S100MTT        | 10 $\pm$ 20%             | 1V/100K                | 28                        | 4.50            |
| SLH1204S120MTT        | 12 $\pm$ 20%             | 1V/100K                | 38                        | 4.10            |
| SLH1204S150MTT        | 15 $\pm$ 20%             | 1V/100K                | 50                        | 3.20            |
| SLH1204S180MTT        | 18 $\pm$ 20%             | 1V/100K                | 57                        | 3.10            |
| SLH1204S220MTT        | 22 $\pm$ 20%             | 1V/100K                | 66                        | 2.90            |
| SLH1204S270MTT        | 27 $\pm$ 20%             | 1V/100K                | 80                        | 2.80            |
| SLH1204S330MTT        | 33 $\pm$ 20%             | 1V/100K                | 97                        | 2.70            |
| SLH1204S390MTT        | 39 $\pm$ 20%             | 1V/100K                | 132                       | 2.10            |
| SLH1204S470MTT        | 47 $\pm$ 20%             | 1V/100K                | 160                       | 1.90            |
| SLH1204S560MTT        | 56 $\pm$ 20%             | 1V/100K                | 190                       | 1.80            |
| SLH1204S680MTT        | 68 $\pm$ 20%             | 1V/100K                | 220                       | 1.50            |
| SLH1204S820MTT        | 82 $\pm$ 20%             | 1V/100K                | 260                       | 1.30            |
| SLH1204S101MTT        | 100 $\pm$ 20%            | 1V/100K                | 308                       | 1.20            |
| SLH1204S121MTT        | 120 $\pm$ 20%            | 1V/100K                | 380                       | 1.10            |
| SLH1204S151MTT        | 150 $\pm$ 20%            | 1V/100K                | 530                       | 0.95            |
| SLH1204S181MTT        | 180 $\pm$ 20%            | 1V/100K                | 620                       | 0.85            |
| SLH1204S221MTT        | 220 $\pm$ 20%            | 1V/100K                | 700                       | 0.80            |
| SLH1204S271MTT        | 270 $\pm$ 20%            | 1V/100K                | 870                       | 0.60            |
| SLH1204S331MTT        | 330 $\pm$ 20%            | 1V/100K                | 990                       | 0.50            |

## ◆ Specification

| Part Number           | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------------|--------------------------|------------------------|---------------------------|-----------------|
| <b>SLH1205 Series</b> |                          |                        |                           |                 |
| SLH1205S1R3NTT        | 1.3 $\pm$ 30%            | 1V/1K                  | 12                        | 8.00            |
| SLH1205S2R2NTT        | 2.2 $\pm$ 30%            | 1V/1K                  | 14                        | 7.00            |
| SLH1205S3R3NTT        | 3.3 $\pm$ 30%            | 1V/1K                  | 17                        | 6.00            |
| SLH1205S4R7NTT        | 4.7 $\pm$ 30%            | 1V/1K                  | 20                        | 5.00            |
| SLH1205S5R8NTT        | 5.8 $\pm$ 30%            | 1V/1K                  | 21                        | 4.40            |
| SLH1205S7R5NTT        | 7.5 $\pm$ 30%            | 1V/1K                  | 24                        | 4.20            |
| SLH1205S100MTT        | 10 $\pm$ 20%             | 1V/1K                  | 25                        | 4.00            |
| SLH1205S120MTT        | 12 $\pm$ 20%             | 1V/1K                  | 27                        | 3.50            |
| SLH1205S150MTT        | 15 $\pm$ 20%             | 1V/1K                  | 30                        | 3.30            |
| SLH1205S180MTT        | 18 $\pm$ 20%             | 1V/1K                  | 34                        | 3.00            |
| SLH1205S220MTT        | 22 $\pm$ 20%             | 1V/1K                  | 36                        | 2.80            |
| SLH1205S270MTT        | 27 $\pm$ 20%             | 1V/1K                  | 51                        | 2.30            |
| SLH1205S330MTT        | 33 $\pm$ 20%             | 1V/1K                  | 57                        | 2.10            |
| SLH1205S390MTT        | 39 $\pm$ 20%             | 1V/1K                  | 68                        | 2.00            |
| SLH1205S470MTT        | 47 $\pm$ 20%             | 1V/1K                  | 75                        | 1.80            |
| SLH1205S560MTT        | 56 $\pm$ 20%             | 1V/1K                  | 110                       | 1.70            |
| SLH1205S680MTT        | 68 $\pm$ 20%             | 1V/1K                  | 120                       | 1.50            |
| SLH1205S820MTT        | 82 $\pm$ 20%             | 1V/1K                  | 140                       | 1.40            |
| SLH1205S101MTT        | 100 $\pm$ 20%            | 1V/1K                  | 160                       | 1.30            |
| SLH1205S121MTT        | 120 $\pm$ 20%            | 1V/1K                  | 170                       | 1.10            |
| SLH1205S151MTT        | 150 $\pm$ 20%            | 1V/1K                  | 230                       | 1.00            |
| SLH1205S181MTT        | 180 $\pm$ 20%            | 1V/1K                  | 290                       | 0.90            |
| SLH1205S221MTT        | 220 $\pm$ 20%            | 1V/1K                  | 400                       | 0.80            |
| SLH1205S271MTT        | 270 $\pm$ 20%            | 1V/1K                  | 460                       | 0.75            |
| SLH1205S331MTT        | 330 $\pm$ 20%            | 1V/1K                  | 510                       | 0.68            |
| SLH1205S391MTT        | 390 $\pm$ 20%            | 1V/1K                  | 690                       | 0.65            |
| SLH1205S471MTT        | 470 $\pm$ 20%            | 1V/1K                  | 770                       | 0.58            |
| SLH1205S561MTT        | 560 $\pm$ 20%            | 1V/1K                  | 860                       | 0.54            |
| SLH1205S681MTT        | 680 $\pm$ 20%            | 1V/1K                  | 1200                      | 0.48            |
| SLH1205S821MTT        | 820 $\pm$ 20%            | 1V/1K                  | 1340                      | 0.43            |
| SLH1205S102MTT        | 1000 $\pm$ 20%           | 1V/1K                  | 1530                      | 0.4             |

## ◆ Specification

| Part Number           | Inductance<br>( $\mu$ H) | Test Frequency<br>(Hz) | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------------|--------------------------|------------------------|---------------------------|-----------------|
| <b>SLH1207 Series</b> |                          |                        |                           |                 |
| SLH1207S1R2NTT        | 1.2 $\pm$ 30%            | 1V/100K                | 7.0                       | 9.80            |
| SLH1207S2R2NTT        | 2.2 $\pm$ 30%            | 1V/100K                | 11.5                      | 8.00            |
| SLH1207S3R3NTT        | 3.3 $\pm$ 30%            | 1V/100K                | 13.5                      | 7.50            |
| SLH1207S3R9NTT        | 3.9 $\pm$ 30%            | 1V/100K                | 14.5                      | 7.00            |
| SLH1207S4R7NTT        | 4.7 $\pm$ 30%            | 1V/100K                | 15.8                      | 6.80            |
| SLH1207S5R5NTT        | 5.6 $\pm$ 30%            | 1V/100K                | 17.6                      | 6.60            |
| SLH1207S7R6NTT        | 7.6 $\pm$ 30%            | 1V/100K                | 20.0                      | 5.90            |
| SLH1207S100MTT        | 10 $\pm$ 20%             | 1V/1K                  | 21.6                      | 5.40            |
| SLH1207S120MTT        | 12 $\pm$ 20%             | 1V/1K                  | 24.3                      | 4.90            |
| SLH1207S150MTT        | 15 $\pm$ 20%             | 1V/1K                  | 27.0                      | 4.50            |
| SLH1207S180MTT        | 18 $\pm$ 20%             | 1V/1K                  | 39.2                      | 3.90            |
| SLH1207S220MTT        | 22 $\pm$ 20%             | 1V/1K                  | 43.2                      | 3.60            |
| SLH1207S270MTT        | 27 $\pm$ 20%             | 1V/1K                  | 45.9                      | 3.40            |
| SLH1207S330MTT        | 33 $\pm$ 20%             | 1V/1K                  | 64.8                      | 3.00            |
| SLH1207S390MTT        | 39 $\pm$ 20%             | 1V/1K                  | 72.9                      | 2.75            |
| SLH1207S470MTT        | 47 $\pm$ 20%             | 1V/1K                  | 100                       | 2.50            |
| SLH1207S560MTT        | 56 $\pm$ 20%             | 1V/1K                  | 110                       | 2.35            |
| SLH1207S680MTT        | 68 $\pm$ 20%             | 1V/1K                  | 140                       | 2.10            |
| SLH1207S820MTT        | 82 $\pm$ 20%             | 1V/1K                  | 160                       | 1.95            |
| SLH1207S101MTT        | 100 $\pm$ 20%            | 1V/1K                  | 220                       | 1.70            |
| SLH1207S121MTT        | 120 $\pm$ 20%            | 1V/1K                  | 250                       | 1.60            |
| SLH1207S151MTT        | 150 $\pm$ 20%            | 1V/1K                  | 280                       | 1.42            |
| SLH1207S181MTT        | 180 $\pm$ 20%            | 1V/1K                  | 350                       | 1.30            |
| SLH1207S221MTT        | 220 $\pm$ 20%            | 1V/1K                  | 390                       | 1.16            |
| SLH1207S271MTT        | 270 $\pm$ 20%            | 1V/1K                  | 560                       | 1.06            |
| SLH1207S331MTT        | 330 $\pm$ 20%            | 1V/1K                  | 640                       | 0.95            |
| SLH1207S391MTT        | 390 $\pm$ 20%            | 1V/1K                  | 700                       | 0.88            |
| SLH1207S471MTT        | 470 $\pm$ 20%            | 1V/1K                  | 980                       | 0.79            |
| SLH1207S561MTT        | 560 $\pm$ 20%            | 1V/1K                  | 1070                      | 0.73            |
| SLH1207S681MTT        | 680 $\pm$ 20%            | 1V/1K                  | 1460                      | 0.67            |
| SLH1207S821MTT        | 820 $\pm$ 20%            | 1V/1K                  | 1640                      | 0.60            |
| SLH1207S102MTT        | 1000 $\pm$ 20%           | 1V/1K                  | 1820                      | 0.55            |

◆ **Note**

1. Inductance measured by LCR Meter HP 4284A or equivalent.
2. DCR measured by Milliohm meter HP 4338B or equivalent.
3. Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
4. Maximum allowable DC current is that which causes a 25% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 25°C).

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