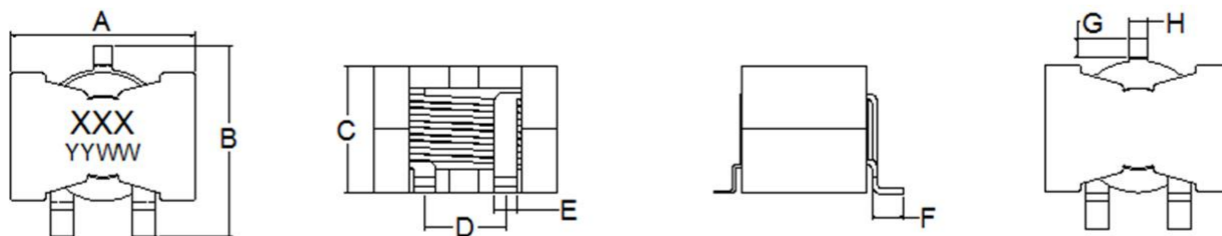


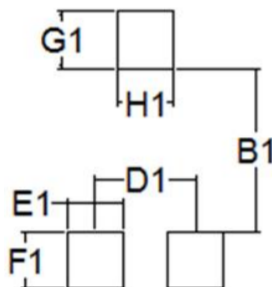
## High Current SMD Power Inductor

### ◆ CONFIGURATION DIMENSIONS:(mm)



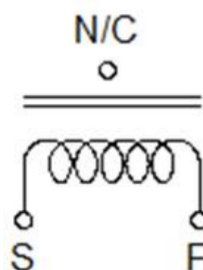
| A     | B     | C     | D    | E    | F    | G    | H    |
|-------|-------|-------|------|------|------|------|------|
| 21.80 | 21.50 | 14.50 | 9.00 | 2.50 | 3.00 | 2.20 | 2.20 |
| MAX   | MAX   | MAX   | ±0.5 | ±0.2 | ±0.5 | ±0.5 | ±0.5 |

### ◆ PCB PADLAYOUT:(mm)



| B1    | D1   | E1   | F1   | G1   | H1   |
|-------|------|------|------|------|------|
| 14.50 | 9.00 | 5.00 | 5.00 | 5.00 | 5.00 |
| REF   | REF  | REF  | REF  | REF  | REF  |

### ◆ SCHEMATIC



### ◆ OPERATING TEMP: -40℃~+125℃ (Including self-generated heat)

## ◆ LEAD FREE PART NUMBERING

**SLB 2014 P 1R5 M S T**  
**(1) (2) (3) (4) (5) (6) (7)**

(1).Series Type

(2).Dimension

(3).Material Code

(4).Inductance: 1R5=1.8uH 2R2=2.2uH 100=10uH

(5).Inductance Tolerance: M=±20% N=±30%

(6).Company Code

(7).Packaging: Tape&reel

## ◆ ELECTRICAL SPECIFICATION

| Product model         | Inductance<br>(μH) | DC<br>resistance<br>m Ω (Max.) | Saturation<br>current<br>(Typ.) | Temperature<br>rise current<br>(Typ.) |
|-----------------------|--------------------|--------------------------------|---------------------------------|---------------------------------------|
| <b>SLB2014P1R5MTT</b> | 1.5 ± 20%          | 1.15                           | 56.0                            | 31.0                                  |
| <b>SLB2014P2R2MTT</b> | 2.2 ± 20%          | 1.75                           | 50.0                            | 30.0                                  |
| <b>SLB2014P3R1MTT</b> | 3.1 ± 20%          | 2.50                           | 45.0                            | 26.0                                  |
| <b>SLB2014P4R2MTT</b> | 4.2 ± 20%          | 3.45                           | 38.0                            | 24.0                                  |
| <b>SLB2014P5R5MTT</b> | 5.5 ± 20%          | 4.45                           | 33.0                            | 22.0                                  |
| <b>SLB2014P7R0MTT</b> | 7.0 ± 20%          | 5.75                           | 30.0                            | 21.0                                  |
| <b>SLB2014P8R6MTT</b> | 8.6 ± 20%          | 8.00                           | 25.0                            | 17.0                                  |
| <b>SLB2014P100MTT</b> | 10.0 ± 20%         | 8.75                           | 23.0                            | 16.0                                  |
| <b>SLB2014P150MTT</b> | 15.0 ± 20%         | 9.55                           | 21.0                            | 14.0                                  |
| <b>SLB2014P220MTT</b> | 22.0 ± 20%         | 11.55                          | 15.0                            | 12.5                                  |
| <b>SLB2014P330MTT</b> | 33.0 ± 20%         | 12.45                          | 11.0                            | 12.0                                  |
| <b>SLB2014P470MTT</b> | 47.0 ± 20%         | 13.50                          | 8.5                             | 11.5                                  |

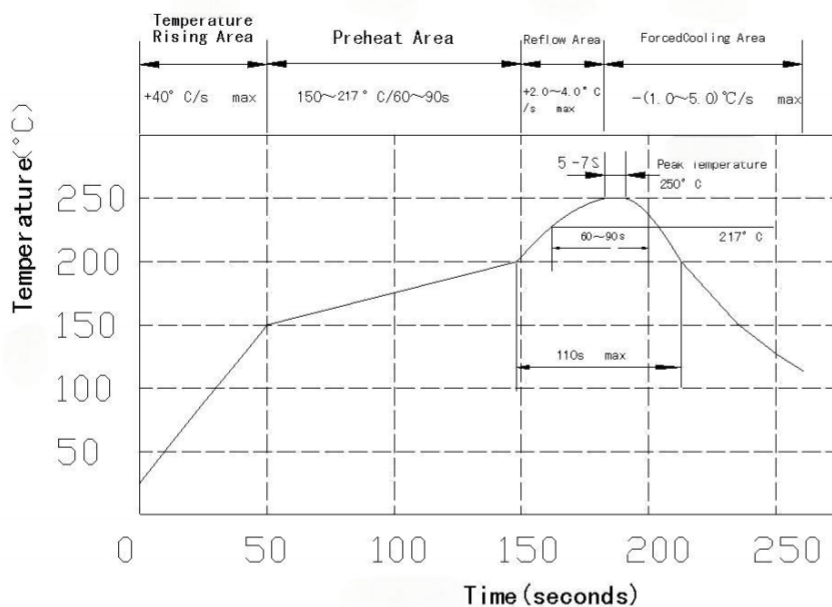
1 All the data should be tested under the environmental temperature of 25°C.

2 The test conditions for the inductance are: 100kHz, 0.1V.

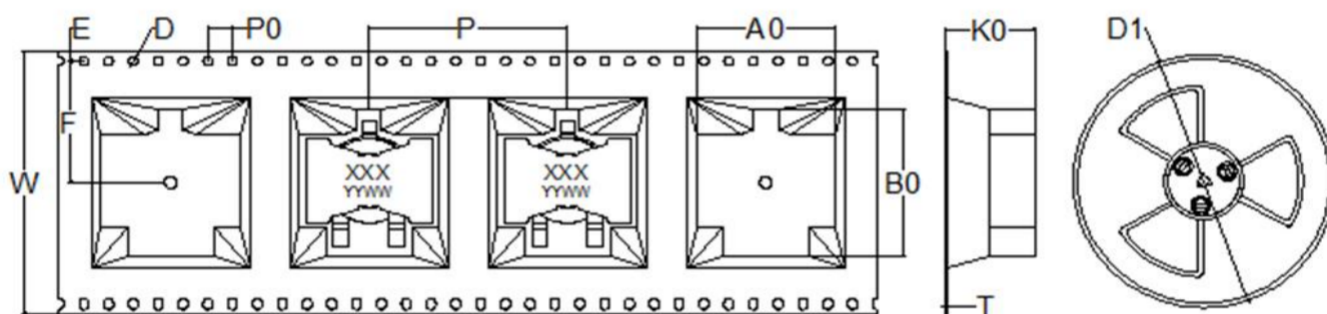
3 Saturation current: The actual direct current value loaded when the inductance value drops by 30% of its initial value.

4 Temperature rise current: The actual direct current value ( $T_a = 25^{\circ}\text{C}$ ) that is applied when the product's temperature rises to  $\Delta T 40^{\circ}\text{C}$ .

# REFLOW SOLDERING TEMPERATURE CURVE



# PACKING



| ITEM          | W            | P            | P0          | A0           | B0           | K0           | D           | E            | F             | T            | D1          |
|---------------|--------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|---------------|--------------|-------------|
| Standard (mm) | 44.0<br>±0.3 | 32.0<br>±0.1 | 4.0<br>±0.1 | 22.5<br>±0.2 | 24.5<br>±0.2 | 16.0<br>±0.2 | 1.5<br>±0.1 | 1.75<br>±0.1 | 20.25<br>±0.2 | 0.5±<br>0.05 | 330<br>±2.0 |

|                |                 |
|----------------|-----------------|
| Series         | SLB2014P Series |
| QTY (PCS/Reel) | 100Ref          |