

### 1. PART NO. EXPRESSION :

SPS 5 0 1 4 F T 1 R 0 N - □ □  
 (a) (b) (c)(d) (e) (f) (g)

(a) Series code

(b) Dimension code

(c) Powder coating type

(d) Taping package

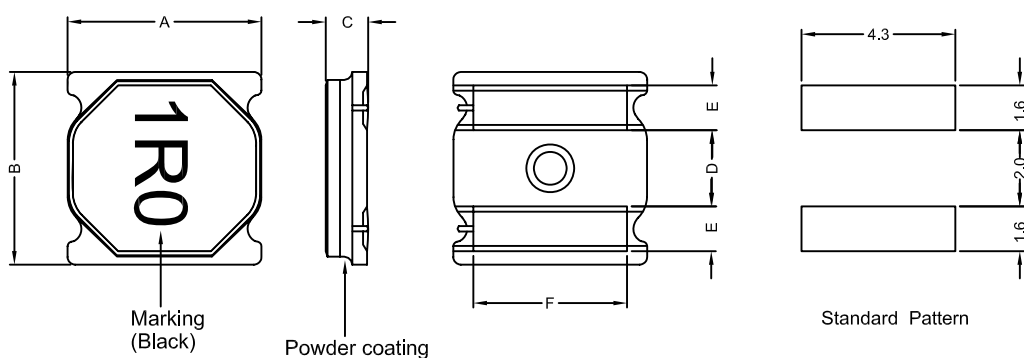
(e) Inductance code : 1R0= 1.0uH

(f) Tolerance code : M =  $\pm 20\%$ , N =  $\pm 30\%$

(g) 10 : Standard

11 ~ 99 : Internal control number

### 2. CONFIGURATION & DIMENSIONS :



Unit:m/m

| A             | B             | C        | D        | E        | F        |
|---------------|---------------|----------|----------|----------|----------|
| 5.0 $\pm 0.2$ | 5.0 $\pm 0.2$ | 1.4 Max. | 2.0 Typ. | 1.1 Typ. | 4.1 Typ. |

### 3. MATERIALS :

(a) Core

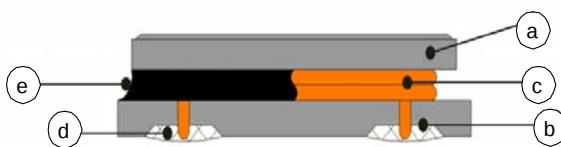
(b) Copper Foil

(c) Wire

(d) Solder

(e) Coating

(f) Ink



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PG. 1

#### 4. GENERAL SPECIFICATION :

- a) IDC1 :Based on inductance change ( $\Delta L/L_0 \leq -30\%$ ) @ ambient temp. 25°C
- b) IDC2 : Based on temperature rise ( $\Delta T$ : 40°C TYP.)
- c) Rated DC Current : The less value which is IDC1 or IDC2.
- d) Operating temp. : -40°C to +125°C ( include self temp. rise )
- e) Storage temperature range (on board) : -40° C to +105° C
- f) Storage condition (component in its packaging)
  - i) Temperature : -10 to 40° C
  - ii) Humidity : 60%

#### 5. ELECTRICAL CHARACTERISTICS :

| SWS Part No.  | Inductance<br>L( uH ) | Percent<br>Tolerance | Test<br>Frequency<br>( Hz ) | RDC<br>( $\Omega$ )<br>$\pm 20\%$ | Rated DC Current |               | Marking |
|---------------|-----------------------|----------------------|-----------------------------|-----------------------------------|------------------|---------------|---------|
|               |                       |                      |                             |                                   | IDC1<br>( A )    | IDC2<br>( A ) |         |
| SPS5014FTR47□ | 0.47                  | N                    | 0.1V/1M                     | 32m                               | 5.0              | 3.0           | R47     |
| SPS5014FT1R0□ | 1.0                   | N                    | 0.1V/1M                     | 45m                               | 4.4              | 2.5           | 1R0     |
| SPS5014FT1R5□ | 1.5                   | N                    | 0.1V/1M                     | 60m                               | 3.3              | 2.4           | 1R5     |
| SPS5014FT2R2□ | 2.2                   | N                    | 0.1V/1M                     | 65m                               | 2.8              | 2.2           | 2R2     |
| SPS5014FT3R3□ | 3.3                   | N,M                  | 0.1V/1M                     | 94m                               | 2.4              | 1.9           | 3R3     |
| SPS5014FT4R7□ | 4.7                   | M                    | 0.1V/1M                     | 0.15                              | 1.9              | 1.6           | 4R7     |
| SPS5014FT6R8□ | 6.8                   | M                    | 0.1V/1M                     | 0.20                              | 1.5              | 1.3           | 6R8     |
| SPS5014FT100□ | 10                    | M                    | 0.1V/1M                     | 0.25                              | 1.2              | 1.05          | 100     |
| SPS5014FT220□ | 22                    | M                    | 0.1V/1M                     | 0.64                              | 0.7              | 0.58          | 220     |

Tolerance code □ : M =  $\pm 20\%$ , N =  $\pm 30\%$



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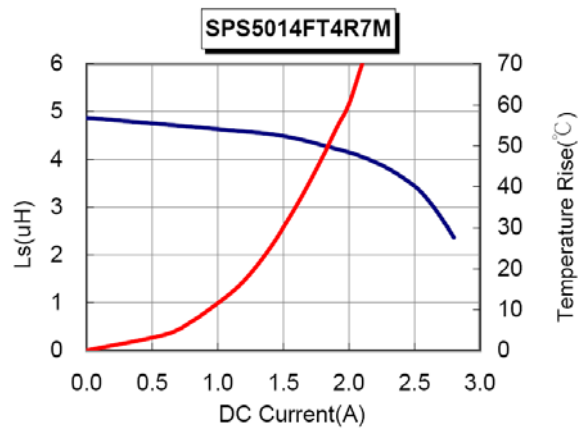
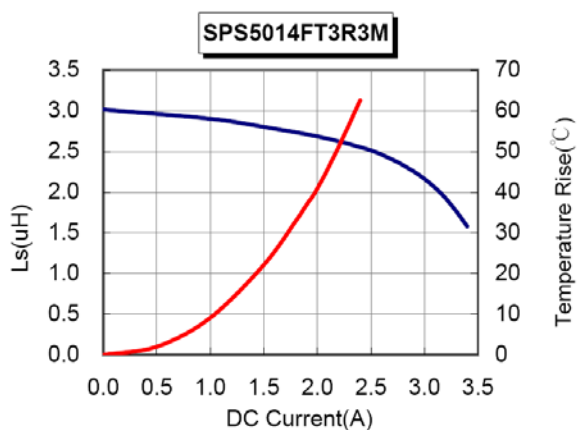
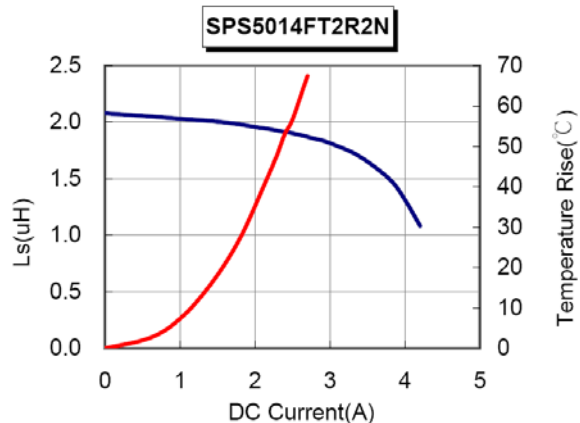
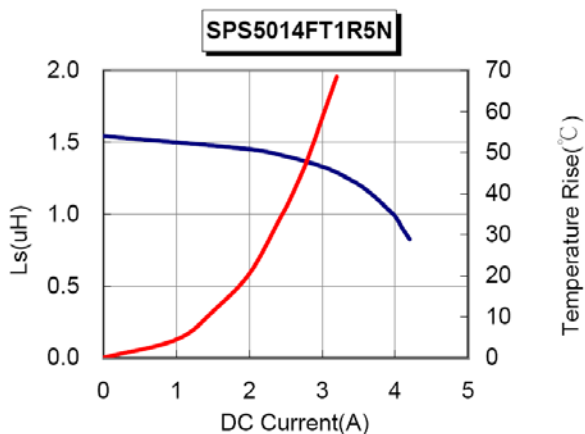
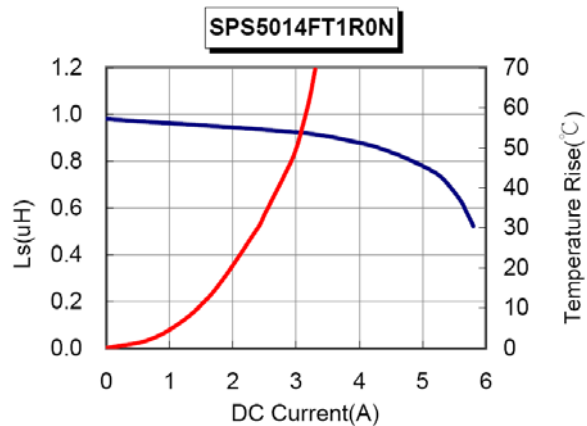
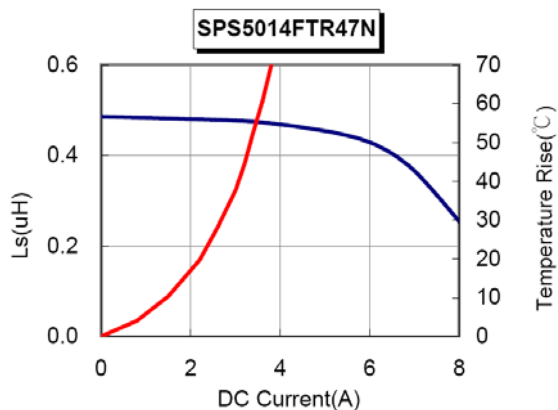
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### 6. TYPICAL ELECTRICAL CHARACTERISTICS :



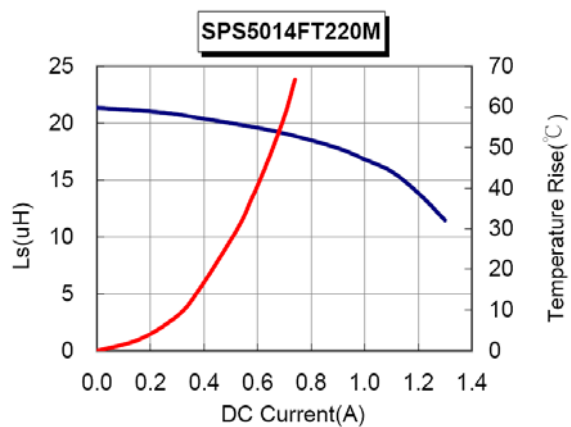
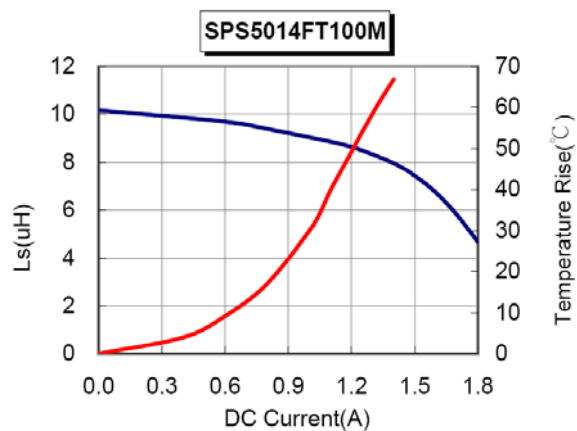
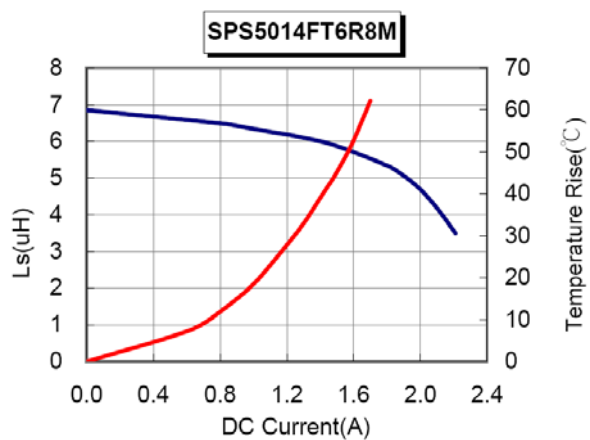
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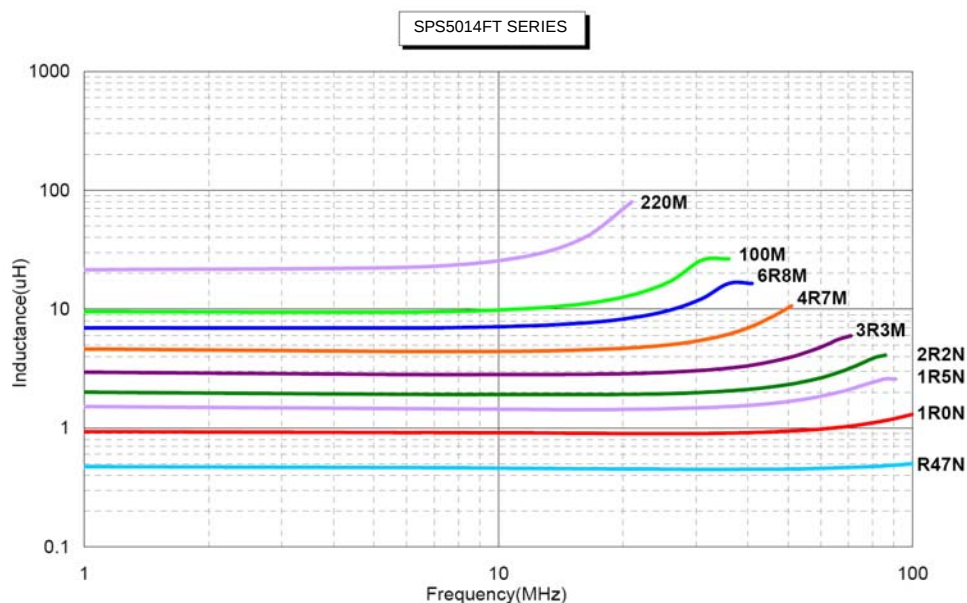
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### 6.2 INDUCTANCE vs. FREQUENCY



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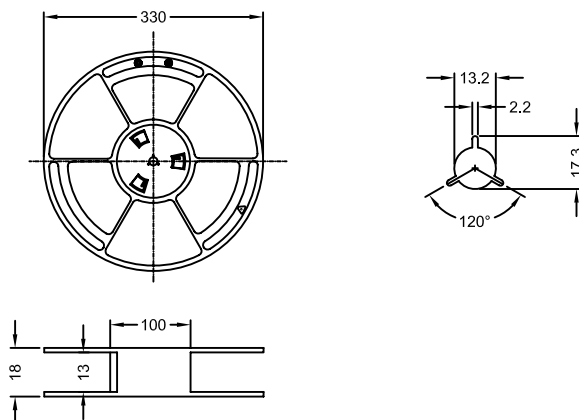
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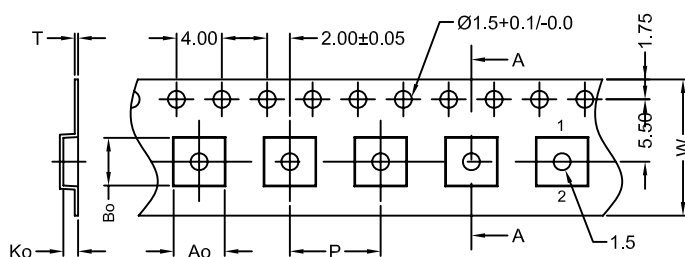
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## 7. PACKAGING INFORMATION :

### 7-1. Reel Dimension (mm)

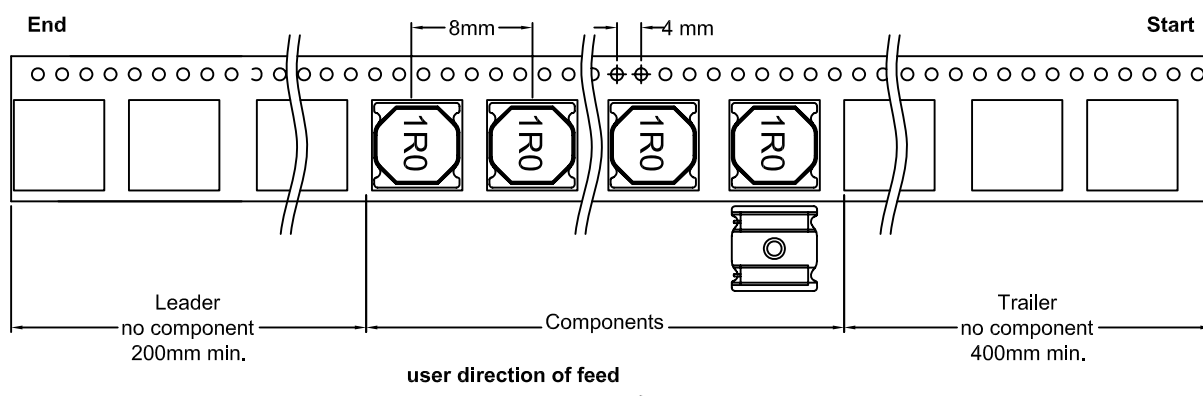


## 7-2 CARRIER TAPE DIMENSIONS (mm)



|       |        |       |      |       |       |
|-------|--------|-------|------|-------|-------|
| Ao    | Bo     | Ko    | W    | P     | T     |
| 5.5mm | 5.35mm | 1.9mm | 12mm | 8.0mm | 0.3mm |

### 7-3 TAPING DIMENSIONS (mm)



## 7-4 QUANTITY

3000pcs/Reel

The products are packaged so that no damage will be sustained.



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