

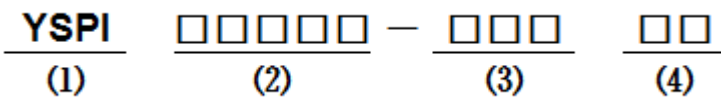
**■ Features**

- Molding Inductor.
- Low Profile,Low Temp.
- Large Current(Over 15A).
- Customize For Different Need.
- Operating temperature:-40°C ~ +125°C.

**■ Applications**

- General Electronic.
- Video Device,TV,TFT.
- Power Module for PC.
- NB/Lap Top Computer.
- Server,VGA Card/Module.

**■ Product Identification**



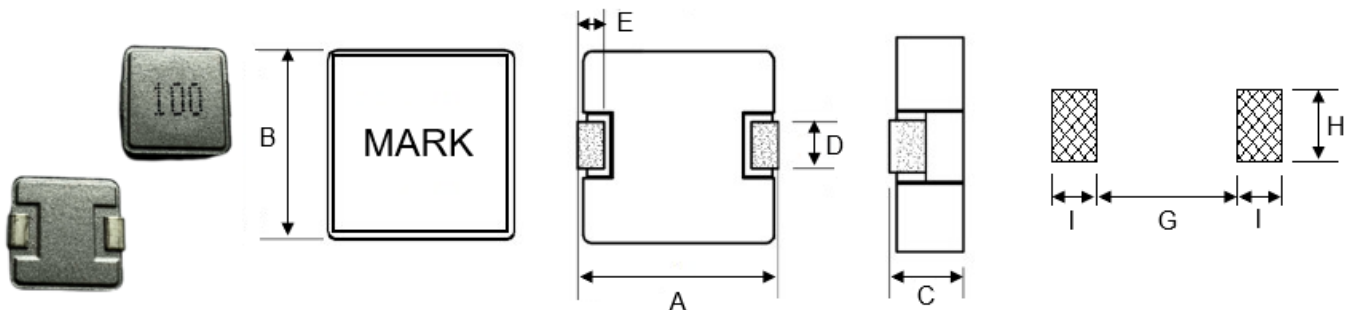
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance : N=±30%,M=±20%

**■ Shapes and Dimensions (Unit: mm)**



| TYPE      | A        | B        | C Max. | D                             | E       | G Ref. | H Ref. | I Ref. |
|-----------|----------|----------|--------|-------------------------------|---------|--------|--------|--------|
| YSPI1030Y | 10.5±1.0 | 10.3±0.3 | 3.0    | 2.8±0.3 Flatten<br>OR 3.0±0.3 | 2.0±0.5 | 6.0    | 4.0    | 3.5    |

## ■ YSPI1030Y Series

| Part Number    | Inductance<br>( $\mu$ H)<br>@100KHz | DC Resistance ( $m\Omega$ ) |      | Heat Rating<br>Current (A) | Saturation<br>Current (A) |
|----------------|-------------------------------------|-----------------------------|------|----------------------------|---------------------------|
|                |                                     | Typ.                        | Max. |                            |                           |
| YSPI1030Y-R12M | 0.12                                | 0.60                        | 0.78 | 40.0                       | 62.0                      |
| YSPI1030Y-R22M | 0.22                                | 0.80                        | 1.05 | 24.0                       | 40.0                      |
| YSPI1030Y-R36M | 0.36                                | 1.10                        | 1.40 | 20.0                       | 35.0                      |
| YSPI1030Y-R56M | 0.56                                | 2.60                        | 3.30 | 18.0                       | 30.0                      |
| YSPI1030Y-R68M | 0.68                                | 2.60                        | 3.30 | 16.0                       | 20.0                      |
| YSPI1030Y-1R0M | 1.0                                 | 4.50                        | 5.50 | 9.0                        | 16.0                      |
| YSPI1030Y-2R2M | 2.2                                 | 11.0                        | 13.5 | 7.0                        | 11.0                      |
| YSPI1030Y-3R3M | 3.3                                 | 13.0                        | 16.0 | 6.0                        | 10.0                      |
| YSPI1030Y-4R7M | 4.7                                 | 19.0                        | 23.0 | 5.5                        | 8.0                       |
| YSPI1030Y-6R8M | 6.8                                 | 24.0                        | 28.0 | 5.0                        | 7.5                       |
| YSPI1030Y-8R2M | 8.2                                 | 44.0                        | 50.0 | 4.5                        | 7.0                       |
| YSPI1030Y-100M | 10                                  | 58.0                        | 66.0 | 4.0                        | 6.0                       |

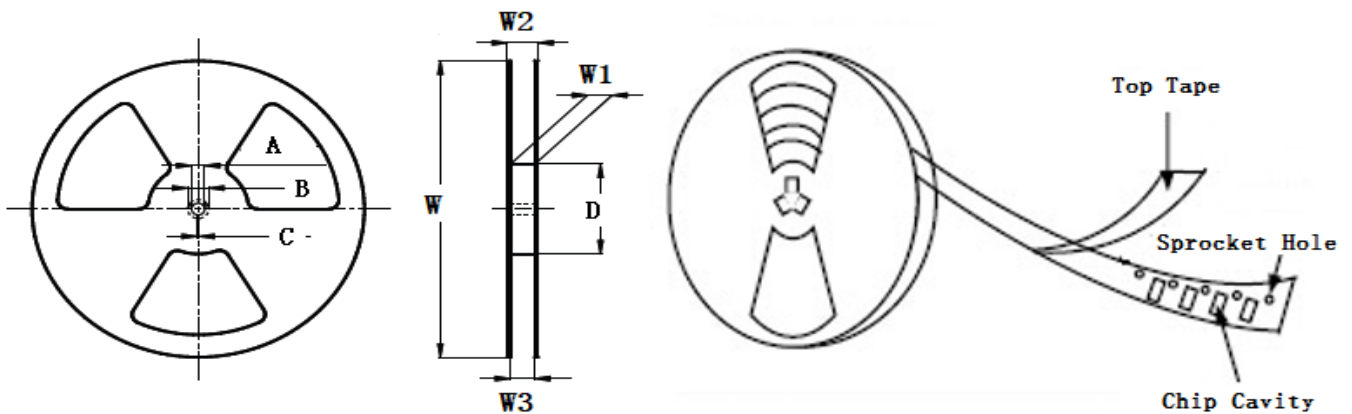
- ※ The saturation current value is the DC current value having inductance decrease down to 30%. (at 20°C)
- ※ The temperature rise current value is the DC current value having temperature increase up to 40°C. (at 20°C)
- ※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

**■ Taping Dimensions(Unit:mm)**



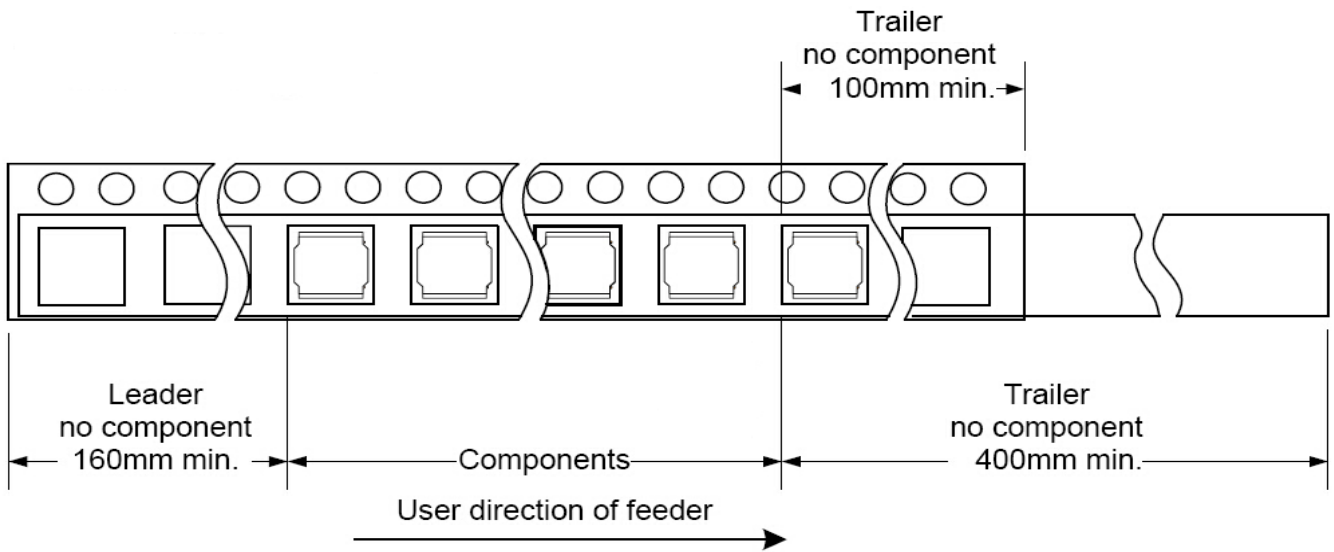
| TYPE      | W      | A        | B         | C     | D        | E       | P      | K<br>Ref | T         | MPQ  |
|-----------|--------|----------|-----------|-------|----------|---------|--------|----------|-----------|------|
| YSPI1030Y | 24±0.3 | 10.6±0.1 | 11.45±0.1 | 10.75 | 11.5±0.1 | 4.4±0.1 | 16±0.1 | 4.2      | 0.40±0.05 | 1000 |

**■ Reel Dimensions(Unit:mm)**



| TYPE      | W       | W1       | W2      | W3       | A         | B         | C        | D       |
|-----------|---------|----------|---------|----------|-----------|-----------|----------|---------|
| YSPI1030Y | 330±2.0 | 24.4±1.5 | 30.4MAX | 23.9 Min | 13.0±0.50 | 21.0±0.80 | 2.0±0.50 | 100 Min |

**Direction of rolling**



**Cover tape peel off condition**



Cover tape peel force shall be 0.1N to 1.3N.

Reference peel speed 300±10mm/min.

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