

## ■ Features

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

## ■ Applications

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

## ■ Product Identification

$\frac{\text{YSPI}}{(1)}$      $\frac{\square\square\square\square}{(2)}$  -  $\frac{\square\square\square}{(3)}$      $\frac{\square}{(4)}$

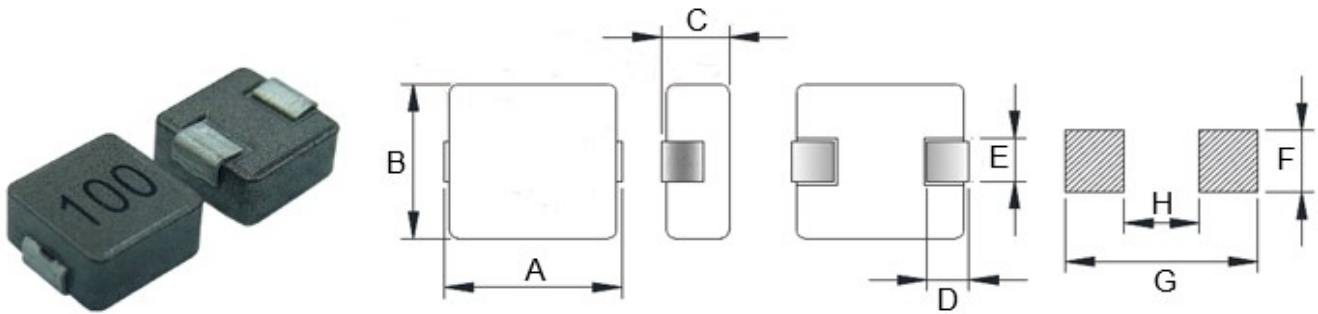
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance: N=±30%,M=±20%, K=±10%

## ■ Shapes and Dimensions (Unit: mm)



| TYPE     | A       | B       | C Max. | D       | E Ref.  | F Ref. | G Ref. | H Ref. |
|----------|---------|---------|--------|---------|---------|--------|--------|--------|
| YSPI0730 | 7.3±0.5 | 6.6±0.5 | 3.0    | 1.5±0.5 | 3.0±0.3 | 3.4    | 7.3    | 3.7    |

## ■ YSPI0730 Series

| Part Number   | Inductance<br>(uH) @100KHz | DC Resistance (mΩ) |      | Heat Rating<br>Current (A) | Saturation<br>Current (A) |
|---------------|----------------------------|--------------------|------|----------------------------|---------------------------|
|               |                            | Typ.               | Max. |                            |                           |
| YSPI0730-R10□ | 0.10                       | 1.5                | 1.7  | 32.5                       | 60.0                      |
| YSPI0730-R15□ | 0.15                       | 1.9                | 2.5  | 26.0                       | 52.0                      |
| YSPI0730-R22□ | 0.22                       | 2.3                | 2.9  | 23.0                       | 40.0                      |
| YSPI0730-R33□ | 0.33                       | 3.2                | 4.2  | 20.0                       | 33.0                      |
| YSPI0730-R47□ | 0.47                       | 3.6                | 5.5  | 16.5                       | 27.0                      |
| YSPI0730-R56□ | 0.56                       | 4.3                | 5.7  | 16.5                       | 25.5                      |
| YSPI0730-R68□ | 0.68                       | 5.7                | 7.4  | 15.5                       | 25                        |
| YSPI0730-R82□ | 0.82                       | 6.7                | 8.0  | 13.0                       | 24.0                      |
| YSPI0730-1R0□ | 1.00                       | 9.0                | 10.0 | 12.0                       | 22.0                      |
| YSPI0730-1R5□ | 1.50                       | 10.5               | 15.0 | 9.5                        | 18.0                      |
| YSPI0730-2R2□ | 2.20                       | 12.5               | 20.0 | 8.5                        | 14.0                      |
| YSPI0730-3R3□ | 3.30                       | 20.0               | 35.0 | 6.0                        | 12.0                      |
| YSPI0730-4R7□ | 4.70                       | 28.0               | 40.0 | 5.5                        | 9.0                       |

| Part Number   | Inductance<br>(uH) @100KHz | DC Resistance (mΩ) |      | Heat Rating<br>Current (A) | Saturation<br>Current (A) |
|---------------|----------------------------|--------------------|------|----------------------------|---------------------------|
|               |                            | Typ.               | Max. |                            |                           |
| YSPI0730-5R6□ | 5.60                       | 34.0               | 45.0 | 5.5                        | 8.0                       |
| YSPI0730-6R8□ | 6.80                       | 40.0               | 60.0 | 4.5                        | 7.0                       |
| YSPI0730-8R2□ | 8.20                       | 54.0               | 68.0 | 4.5                        | 6.0                       |
| YSPI0730-100□ | 10.0                       | 60.0               | 102  | 4.0                        | 5.5                       |
| YSPI0730-150□ | 15.0                       | 98.0               | 122  | 3.0                        | 5.0                       |
| YSPI0730-220□ | 22.0                       | 130                | 145  | 3.0                        | 3.2                       |
| YSPI0730-330□ | 33.0                       | 209                | 270  | 2.0                        | 3.0                       |

- ※ 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 Ref | T         | MPQ  |
|----------|--------|---------|----------|------|---------|---------|--------|-------|-----------|------|
| YSPI0730 | 16±0.3 | 7.1±0.1 | 7.30±0.1 | 6.75 | 7.5±0.1 | 3.4±0.1 | 12±0.1 | 3.2   | 0.40±0.05 | 1000 |

**■ Reel Dimensions(Unit:mm)**



| TYPE     | W       | W1        | W2      | W3       | A         | B         | C        | D       |
|----------|---------|-----------|---------|----------|-----------|-----------|----------|---------|
| YSPI0730 | 330±2.0 | 16.4±2.00 | 22.4MAX | 15.9 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  $300 \pm 10$ mm/min.

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