

### ■ Features

- Low profile construction and miniature size.
- Magnetic shielded construction.
- High current saturation.
- Operating temperature:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ .
- RoHS compliant

### ■ Applications

- For small DC/DC converter(HDD,DVC,DSC,PDA,LCD display etc.).
- Car navigation systems,telecom base stations.
- VR,AR,LED lighting.

### ■ Product Identification

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

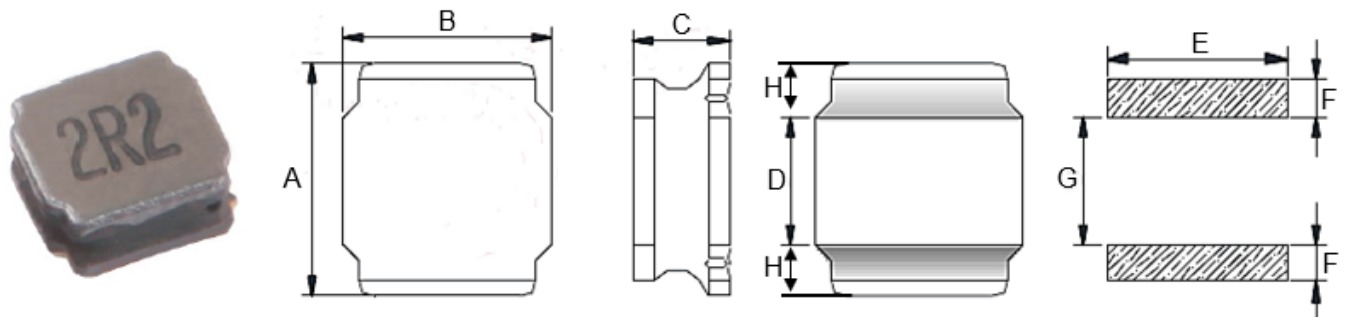
(1) : Type

(2) : Dimensions

(3) : Inductance value

(4) : Inductance Tolerance; N= $\pm 30\%$ , M= $\pm 20\%$ , K= $\pm 10\%$

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



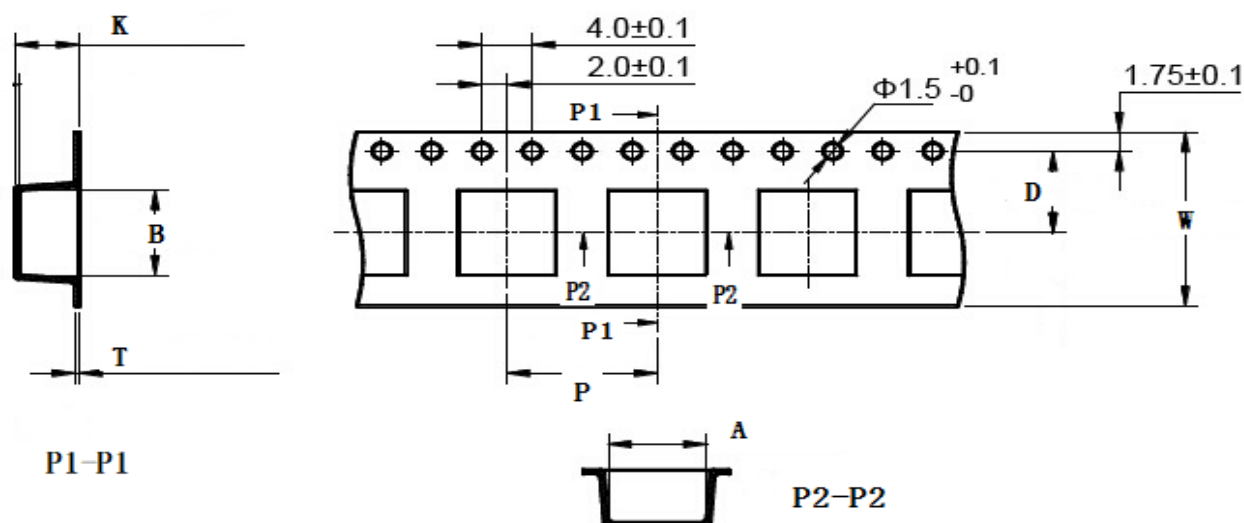
| TYPE    | A             | B             | C Max. | D              | E Ref. | F Ref. | G Ref. | H              |
|---------|---------------|---------------|--------|----------------|--------|--------|--------|----------------|
| YNR2512 | $2.5 \pm 0.1$ | $2.0 \pm 0.1$ | 1.20   | $0.80 \pm 0.2$ | 2.00   | 0.85   | 0.80   | $0.80 \pm 0.2$ |

### ■ YNR2512 Series

| Part Number  | Inductance<br>(uH) @100KHz | DC Resistance ( $\Omega$ ) |       | Heat Rating<br>Current (A) | Saturation<br>Current (A) |
|--------------|----------------------------|----------------------------|-------|----------------------------|---------------------------|
|              |                            | Typ.                       | Max.  |                            |                           |
| YNR2512-R22□ | 0.22                       | 0.039                      | 0.047 | 2.20                       | 6.10                      |
| YNR2512-R33□ | 0.33                       | 0.039                      | 0.047 | 2.20                       | 4.00                      |
| YNR2512-R47□ | 0.47                       | 0.047                      | 0.061 | 2.15                       | 3.82                      |
| YNR2512-R68□ | 0.68                       | 0.057                      | 0.074 | 1.95                       | 3.28                      |
| YNR2512-1R0□ | 1.00                       | 0.069                      | 0.090 | 1.93                       | 2.59                      |
| YNR2512-1R2□ | 1.20                       | 0.099                      | 0.129 | 1.46                       | 2.38                      |
| YNR2512-1R5□ | 1.50                       | 0.113                      | 0.147 | 1.40                       | 2.24                      |
| YNR2512-2R2□ | 2.20                       | 0.166                      | 0.216 | 1.15                       | 1.85                      |
| YNR2512-2R7□ | 2.70                       | 0.184                      | 0.239 | 1.09                       | 1.72                      |
| YNR2512-3R3□ | 3.30                       | 0.203                      | 0.264 | 1.04                       | 1.61                      |
| YNR2512-3R6□ | 3.60                       | 0.268                      | 0.348 | 0.90                       | 1.46                      |
| YNR2512-4R3□ | 4.30                       | 0.290                      | 0.377 | 0.87                       | 1.37                      |
| YNR2512-4R7□ | 4.70                       | 0.290                      | 0.377 | 0.84                       | 1.12                      |
| YNR2512-5R1□ | 5.10                       | 0.385                      | 0.500 | 0.75                       | 1.23                      |
| YNR2512-5R6□ | 5.60                       | 0.414                      | 0.538 | 0.73                       | 1.11                      |
| YNR2512-6R2□ | 6.20                       | 0.417                      | 0.542 | 0.73                       | 1.03                      |
| YNR2512-6R8□ | 6.80                       | 0.447                      | 0.581 | 0.69                       | 0.98                      |
| YNR2512-7R5□ | 7.50                       | 0.470                      | 0.611 | 0.68                       | 0.97                      |
| YNR2512-8R2□ | 8.20                       | 0.506                      | 0.658 | 0.65                       | 0.98                      |
| YNR2512-9R1□ | 9.10                       | 0.531                      | 0.690 | 0.62                       | 0.91                      |
| YNR2512-100□ | 10.0                       | 0.531                      | 0.690 | 0.62                       | 0.79                      |
| YNR2512-120□ | 12.0                       | 0.827                      | 1.075 | 0.51                       | 0.78                      |
| YNR2512-150□ | 15.0                       | 1.224                      | 1.591 | 0.42                       | 0.68                      |
| YNR2512-220□ | 22.0                       | 1.520                      | 1.976 | 0.38                       | 0.53                      |

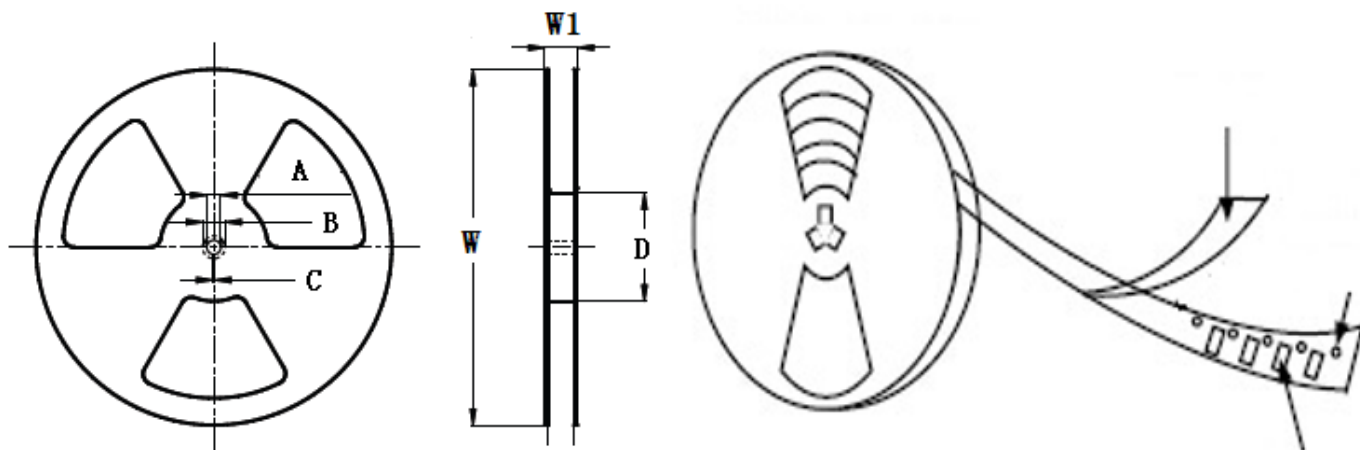
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- ※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20℃)
  - ※ The temperature rise current value is the DC current value having temperature increase up to 40℃. (at 20℃)
  - ※ The rated current is the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

### Taping Dimensions(Unit:mm)



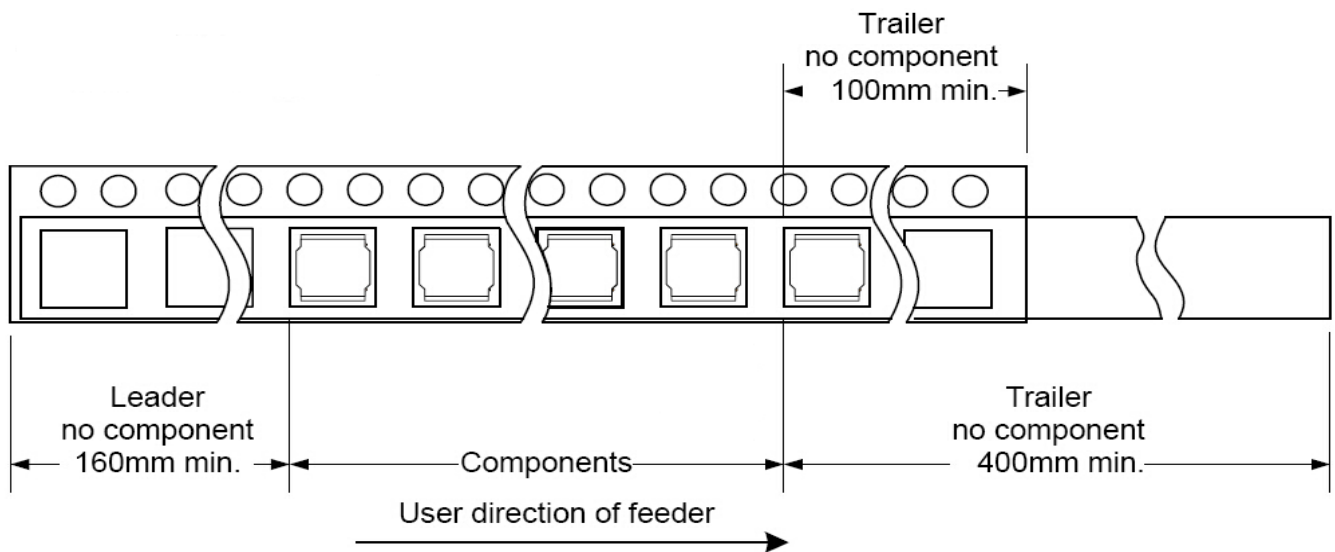
| TYPE    | Chip Thickness | W    | A    | B    | D    | P    | K Max | T Max | MPQ  |
|---------|----------------|------|------|------|------|------|-------|-------|------|
| YNR2512 | 1.20           | 8.00 | 2.35 | 2.65 | 3.50 | 4.00 | 1.40  | 0.25  | 2000 |

### Reel Dimensions(Unit:mm)

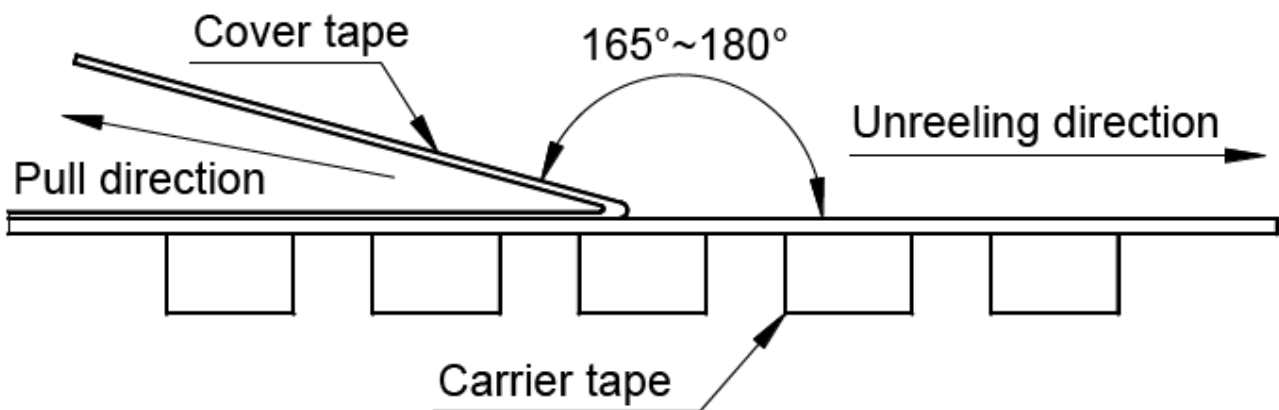


| TYPE    | W       | W1        | A        | B        | C        | D      |
|---------|---------|-----------|----------|----------|----------|--------|
| YNR2512 | 178±2.0 | 8.40±1.50 | 4.3±0.20 | 5.0±0.10 | 3.0±0.10 | 58±2.0 |

## ■ 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.