

**■ Features**

- Low profile construction and miniature size.
- Magnetic shielded construction.
- High current saturation.
- Operating temperature:-40°C ~ +125°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**



- (1) : Type
- (2) : Dimensions
- (3) : Inductance value
- (4) : Inductance Tolerance; N=±30%,M=±20%, K=±10%

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



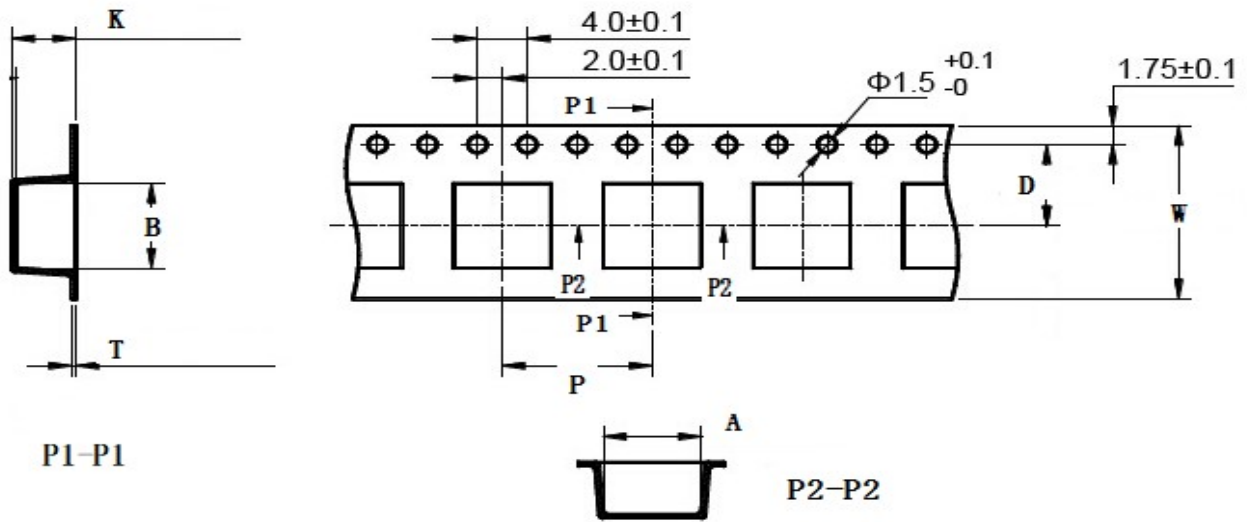
| TYPE    | A       | B       | C Max. | D        | E Ref. | F Ref. | G Ref. |
|---------|---------|---------|--------|----------|--------|--------|--------|
| YNR4018 | 4.0±0.2 | 4.0±0.2 | 1.80   | 0.95±0.2 | 3.70   | 1.10   | 1.90   |

## ■ YNR4018 Series

| Part Number  | Inductance<br>(uH) @100KHz | DC Resistance ( $\Omega$ ) |       | Heat Rating<br>Current (A) | Saturation<br>Current (A) |
|--------------|----------------------------|----------------------------|-------|----------------------------|---------------------------|
|              |                            | Typ.                       | Max.  |                            |                           |
| YNR4018-R22□ | 0.22                       | 0.010                      | 0.013 | 5.50                       | 6.30                      |
| YNR4018-R47□ | 0.47                       | 0.014                      | 0.018 | 4.00                       | 4.30                      |
| YNR4018-R68□ | 0.68                       | 0.020                      | 0.026 | 3.30                       | 4.90                      |
| YNR4018-1R0□ | 1.00                       | 0.025                      | 0.033 | 2.00                       | 4.80                      |
| YNR4018-1R2□ | 1.20                       | 0.025                      | 0.033 | 2.00                       | 3.40                      |
| YNR4018-1R5□ | 1.50                       | 0.030                      | 0.039 | 1.80                       | 3.35                      |
| YNR4018-1R8□ | 1.80                       | 0.034                      | 0.044 | 2.00                       | 3.00                      |
| YNR4018-2R2□ | 2.20                       | 0.045                      | 0.059 | 1.65                       | 2.70                      |
| YNR4018-3R3□ | 3.30                       | 0.070                      | 0.091 | 1.23                       | 2.45                      |
| YNR4018-3R6□ | 3.60                       | 0.090                      | 0.117 | 1.20                       | 2.50                      |
| YNR4018-4R7□ | 4.70                       | 0.090                      | 0.117 | 1.20                       | 1.70                      |
| YNR4018-5R6□ | 5.60                       | 0.107                      | 0.139 | 1.50                       | 1.60                      |
| YNR4018-6R8□ | 6.80                       | 0.110                      | 0.143 | 1.06                       | 1.45                      |
| YNR4018-8R2□ | 8.20                       | 0.170                      | 0.221 | 1.40                       | 1.40                      |
| YNR4018-100□ | 10.0                       | 0.180                      | 0.234 | 0.84                       | 1.30                      |
| YNR4018-150□ | 15.0                       | 0.250                      | 0.325 | 0.65                       | 0.94                      |
| YNR4018-220□ | 22.0                       | 0.360                      | 0.468 | 0.59                       | 0.80                      |
| YNR4018-270□ | 27.0                       | 0.470                      | 0.611 | 0.52                       | 0.47                      |
| YNR4018-330□ | 33.0                       | 0.530                      | 0.689 | 0.49                       | 0.56                      |
| YNR4018-470□ | 47.0                       | 0.650                      | 0.845 | 0.42                       | 0.57                      |
| YNR4018-560□ | 56.0                       | 1.000                      | 1.300 | 0.32                       | 0.61                      |
| YNR4018-680□ | 68.0                       | 1.000                      | 1.300 | 0.32                       | 0.47                      |
| YNR4018-101□ | 100                        | 1.750                      | 2.275 | 0.25                       | 0.40                      |
| YNR4018-151□ | 150                        | 2.500                      | 3.250 | 0.22                       | 0.31                      |
| YNR4018-221□ | 220                        | 4.000                      | 5.200 | 0.17                       | 0.27                      |

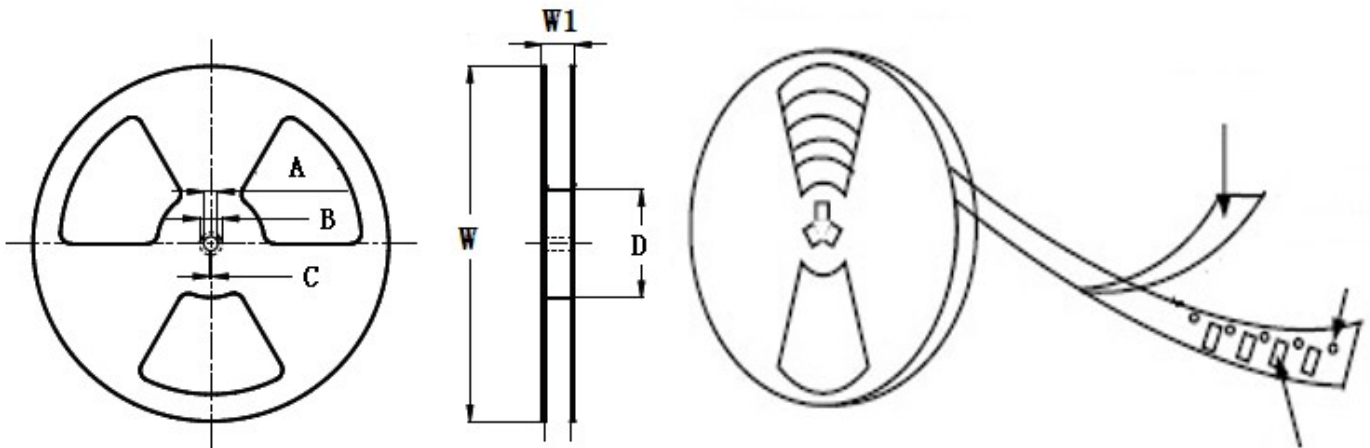
- ※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20°C)
- ※ The temperature rise current value is the DC current value having temperature increase up to 40°C. (at 20°C)
- ※ The rated current is the DC current value that satisfies both of current value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

**■ Taping Dimensions(Unit:mm)**



| TYPE    | Chip Thickness | W    | A    | B    | D    | P    | K Max | T Max | MPQ  |
|---------|----------------|------|------|------|------|------|-------|-------|------|
| YNR4018 | 1.80           | 12.0 | 4.30 | 4.30 | 5.50 | 8.00 | 2.10  | 0.35  | 3000 |

**■ Reel Dimensions(Unit:mm)**



| TYPE    | W       | W1        | A         | B         | C        | D       |
|---------|---------|-----------|-----------|-----------|----------|---------|
| YNR4018 | 330±2.0 | 12.8±1.50 | 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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