

■ 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. |
|---------|---------|---------|--------|----------|--------|--------|--------|
| YNR4030 | 4.0±0.2 | 4.0±0.2 | 3.00 | 0.95±0.2 | 3.70 | 1.10 | 1.90 |

■ YNR4030 Series

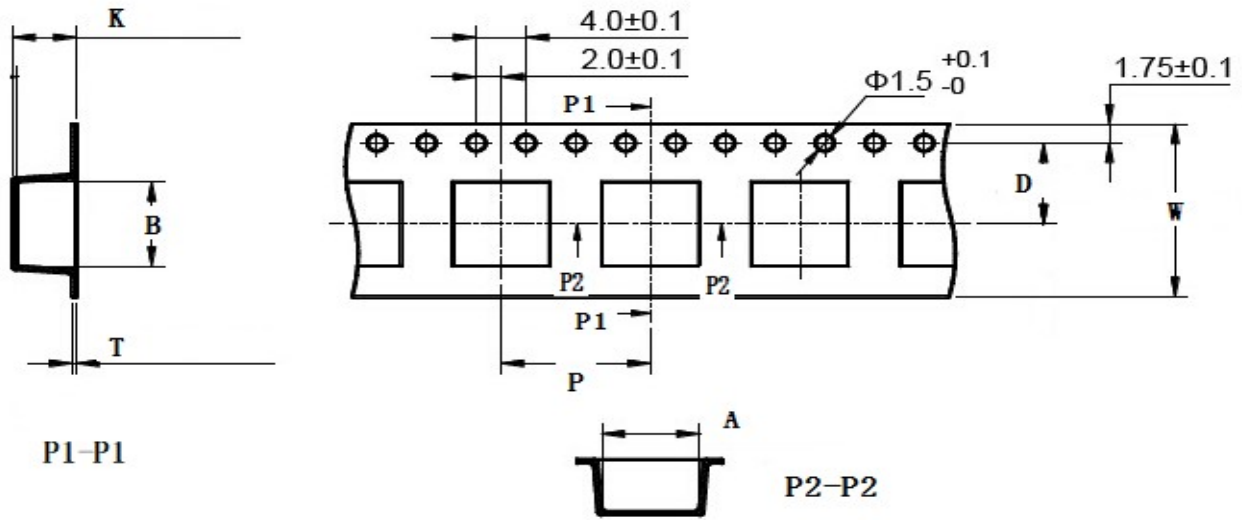
| Part Number | Inductance (uH) @100KHz | DC Resistance (Ω) | | Heat Rating Current (A) | Saturation Current (A) |
|--------------|----------------------------|----------------------------|-------|----------------------------|---------------------------|
| | | Typ. | Max. | | |
| YNR4030-R47□ | 0.47 | 0.008 | 0.010 | 5.20 | 7.80 |
| YNR4030-R68□ | 0.68 | 0.010 | 0.013 | 4.56 | 6.80 |
| YNR4030-R91□ | 0.91 | 0.013 | 0.017 | 4.15 | 6.25 |
| YNR4030-1R0□ | 1.00 | 0.014 | 0.018 | 4.15 | 5.26 |
| YNR4030-1R5□ | 1.50 | 0.020 | 0.026 | 3.34 | 4.84 |
| YNR4030-1R8□ | 1.80 | 0.025 | 0.033 | 3.20 | 5.40 |
| YNR4030-2R2□ | 2.20 | 0.030 | 0.039 | 2.95 | 4.90 |
| YNR4030-3R3□ | 3.30 | 0.040 | 0.052 | 2.40 | 3.30 |
| YNR4030-3R9□ | 3.90 | 0.057 | 0.074 | 2.10 | 3.00 |
| YNR4030-4R7□ | 4.70 | 0.060 | 0.078 | 2.00 | 2.90 |
| YNR4030-5R6□ | 5.60 | 0.065 | 0.085 | 1.95 | 2.60 |
| YNR4030-6R8□ | 6.80 | 0.090 | 0.117 | 1.60 | 2.75 |
| YNR4030-7R5□ | 7.50 | 0.085 | 0.110 | 1.65 | 2.20 |
| YNR4030-8R2□ | 8.20 | 0.090 | 0.117 | 1.60 | 2.10 |
| YNR4030-100□ | 10.0 | 0.100 | 0.130 | 1.50 | 1.95 |
| YNR4030-120□ | 12.0 | 0.135 | 0.175 | 1.30 | 1.70 |
| YNR4030-150□ | 15.0 | 0.190 | 0.247 | 1.11 | 1.65 |
| YNR4030-180□ | 18.0 | 0.200 | 0.260 | 1.10 | 1.40 |
| YNR4030-220□ | 22.0 | 0.225 | 0.292 | 1.00 | 1.30 |
| YNR4030-270□ | 27.0 | 0.260 | 0.338 | 0.90 | 1.15 |
| YNR4030-330□ | 33.0 | 0.330 | 0.429 | 0.84 | 1.10 |
| YNR4030-360□ | 36.0 | 0.335 | 0.436 | 0.83 | 1.05 |
| YNR4030-390□ | 39.0 | 0.435 | 0.566 | 0.73 | 1.03 |

■ YNR4030 Series

| Part Number | Inductance (uH) @100KHz | DC Resistance (Ω) | | Heat Rating Current (A) | Saturation Current (A) |
|--------------|----------------------------|----------------------------|-------|----------------------------|---------------------------|
| | | Typ. | Max. | | |
| YNR4030-470□ | 47.0 | 0.445 | 0.579 | 0.72 | 0.95 |
| YNR4030-510□ | 51.0 | 0.470 | 0.611 | 0.70 | 0.90 |
| YNR4030-560□ | 56.0 | 0.555 | 0.722 | 0.65 | 0.85 |
| YNR4030-620□ | 62.0 | 0.585 | 0.761 | 0.63 | 0.80 |
| YNR4030-680□ | 68.0 | 0.868 | 1.128 | 0.52 | 0.72 |
| YNR4030-820□ | 82.0 | 1.060 | 1.378 | 0.47 | 0.66 |
| YNR4030-910□ | 91.0 | 1.100 | 1.430 | 0.46 | 0.65 |
| YNR4030-101□ | 100 | 1.150 | 1.495 | 0.45 | 0.60 |
| YNR4030-121□ | 120 | 1.350 | 1.755 | 0.42 | 0.55 |
| YNR4030-151□ | 150 | 1.800 | 2.340 | 0.30 | 0.50 |
| YNR4030-221□ | 220 | 2.500 | 3.250 | 0.35 | 0.40 |
| YNR4030-331□ | 330 | 4.000 | 5.200 | 0.25 | 0.30 |
| YNR4030-471□ | 470 | 7.200 | 9.360 | 0.20 | 0.30 |
| YNR4030-501□ | 500 | 6.944 | 9.027 | 0.15 | 0.28 |
| YNR4030-681□ | 680 | 7.580 | 9.854 | 0.14 | 0.19 |

- ※ 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 |
|---------|----------------|------|------|------|------|------|-------|-------|------|
| YNR4030 | 3.00 | 12.0 | 4.30 | 4.30 | 5.50 | 8.00 | 3.20 | 0.40 | 2000 |

■ Reel Dimensions(Unit:mm)



| TYPE | W | W1 | A | B | C | D |
|---------|---------|-----------|-----------|-----------|----------|---------|
| YNR4030 | 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±10mm/min.

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