

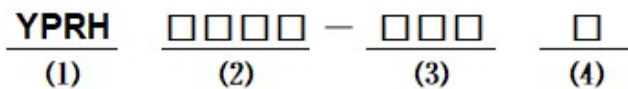
■ Features

- Ultra low profile.
- Magnetic shielded for low radiation.
- Bobbin ferrite core and compact size.
- Low core loss for high frequency power application.
- Large terminal surface for good PCB bonding.
- Operating temperature:-40℃ ~ +125℃.

■ Applications

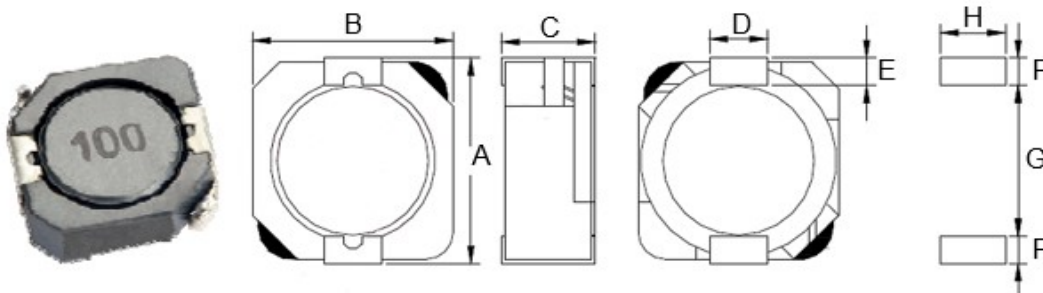
- Portable communication equipment.
- Notebook PC,digital camera,LCD television set.
- Power supply for VTR,OA equipment.
- DC/DC converters.

■ 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 | F Ref. | G Ref. | H Ref. |
|----------|----------|----------|---------|-----|-----|--------|--------|--------|
| YPRH105R | 10.2±0.3 | 10.0±0.3 | 4.8±0.3 | 3.0 | 1.2 | 1.6 | 7.3 | 3.2 |

■ YPRH105R Series

| Part Number | Inductance (μ H) | Test Freq. (KHz) | DCR MAX. (Ω) | Saturation Current (A) | Heat Rating Current (A) |
|---------------|--------------------------|---------------------|--------------------------|---------------------------|----------------------------|
| YPRH105R-R80□ | 0.80 | 100 | 0.005 | 9.50 | 13.50 |
| YPRH105R-1R5□ | 1.50 | 100 | 0.006 | 8.30 | 10.50 |
| YPRH105R-2R2□ | 2.20 | 100 | 0.008 | 7.50 | 9.25 |
| YPRH105R-3R3□ | 3.30 | 100 | 0.011 | 6.50 | 7.80 |
| YPRH105R-4R7□ | 4.70 | 100 | 0.013 | 6.10 | 6.40 |
| YPRH105R-6R8□ | 6.80 | 100 | 0.018 | 5.40 | 5.40 |
| YPRH105R-8R2□ | 8.20 | 100 | 0.020 | 5.00 | 4.85 |
| YPRH105R-100□ | 10.0 | 100 | 0.026 | 4.50 | 4.45 |
| YPRH105R-120□ | 12.0 | 100 | 0.033 | 3.80 | 4.00 |
| YPRH105R-150□ | 15.0 | 100 | 0.041 | 3.40 | 3.60 |
| YPRH105R-180□ | 18.0 | 100 | 0.046 | 3.10 | 3.20 |
| YPRH105R-220□ | 22.0 | 100 | 0.061 | 2.90 | 2.95 |
| YPRH105R-270□ | 27.0 | 100 | 0.069 | 2.60 | 2.70 |
| YPRH105R-330□ | 33.0 | 100 | 0.084 | 2.50 | 2.40 |
| YPRH105R-390□ | 39.0 | 100 | 0.106 | 2.25 | 2.30 |
| YPRH105R-470□ | 47.0 | 100 | 0.130 | 2.00 | 2.00 |
| YPRH105R-560□ | 56.0 | 100 | 0.149 | 1.90 | 1.90 |
| YPRH105R-680□ | 68.0 | 100 | 0.201 | 1.60 | 1.65 |
| YPRH105R-820□ | 82.0 | 100 | 0.227 | 1.45 | 1.50 |
| YPRH105R-101□ | 100 | 100 | 0.253 | 1.35 | 1.35 |
| YPRH105R-121□ | 120 | 100 | 0.303 | 1.18 | 1.28 |
| YPRH105R-151□ | 150 | 100 | 0.370 | 1.10 | 1.12 |
| YPRH105R-181□ | 180 | 100 | 0.419 | 1.00 | 1.04 |
| YPRH105R-221□ | 220 | 100 | 0.500 | 0.94 | 0.94 |
| YPRH105R-271□ | 270 | 100 | 0.672 | 0.80 | 0.84 |

| Part Number | Inductance (μH) | Test Freq. (KHz) | DCR MAX. (Ω) | Saturation Current (A) | Heat Rating Current (A) |
|---------------|---------------------------------|---------------------|--------------------------|---------------------------|----------------------------|
| YPRH105R-331□ | 330 | 100 | 0.812 | 0.73 | 0.75 |
| YPRH105R-391□ | 390 | 100 | 0.953 | 0.70 | 0.70 |
| YPRH105R-471□ | 470 | 100 | 1.289 | 0.54 | 0.60 |
| YPRH105R-561□ | 560 | 100 | 1.430 | 0.52 | 0.54 |
| YPRH105R-681□ | 680 | 100 | 1.599 | 0.51 | 0.52 |
| YPRH105R-821□ | 820 | 100 | 1.768 | 0.48 | 0.50 |
| YPRH105R-102□ | 1000 | 100 | 1.989 | 0.42 | 0.48 |

- ※ 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 |
|----------|--------|----------|----------|-------|----------|----------|--------|-------|-----------|-----|
| YPRH105R | 24±0.3 | 10.8±0.1 | 10.8±0.1 | 10.75 | 11.5±0.1 | 4.75±0.1 | 16±0.1 | 4.95 | 0.35±0.05 | 800 |

■ Reel Dimensions(Unit:mm)



| TYPE | W | W1 | W2 | W3 | A | B | C | D |
|----------|---------|-----------|---------|----------|-----------|-----------|----------|---------|
| YPRH105R | 330±2.0 | 24.4±1.50 | 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 ± 10 mm/min.

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