

PWD 0315 Series SMD Unshielded Power Inductor

Features

- Small size and low profile.
- Open magnetic circuit.
- Competitive cost solution.

Applications

- DC/DC buck, Boost application.
- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc.

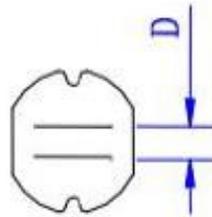
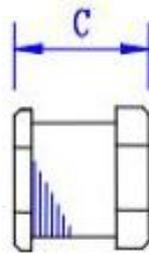
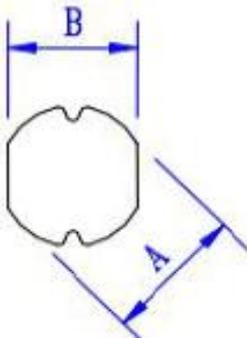


Yint P/N Information

- ① PW ② D ③ 0315 ④ -100 ⑤ M ⑥ 0 ⑦ T
- ① Product series
 - ② Material
 - ③ Size
 - ④ Inductance
 - ⑤ Tolerance
 - ⑥ Special code
 - ⑦ Taping information

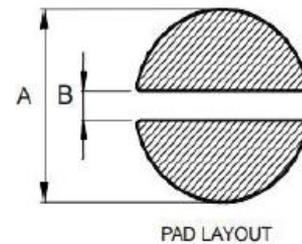
| ④ Nominal Inductance[μ H] | |
|--------------------------------|-------------------------|
| Example | Nominal Value[μ H] |
| R15 | 0.15 μ H |
| 1R0 | 1.0 μ H |
| 100 | 10 μ H |
| ⑤ Inductance Tolerance | |
| M | $\pm 20\%$ |
| N | $\pm 30\%$ |

Shape & Dimension information



Dimensions in mm

Recommended Pattern



Dimensions in mm

| TYPE | A | B | C | D |
|---------|---------------|---------------|---------------|---------|
| PWD0315 | 3.3 \pm 0.3 | 3.0 \pm 0.3 | 1.5 \pm 0.3 | 1.0Typ. |

| TYPE | A | B |
|---------|-----|-----|
| PWD0315 | 4.5 | 1.0 |

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Specification

| Yint P/N | Inductance | DC Resistance | Saturation Current |
|----------------|------------|---------------|--------------------|
| | L0 (μH) | DCR (mΩ) | Isat (A) |
| | 1MHz, 1V | Max. | Typ. |
| PWD0315-2R2M0T | 2.2 | 0.013 | 0.79 |
| PWD0315-3R3M0T | 3.3 | 0.143 | 0.73 |
| PWD0315-4R7M0T | 4.7 | 0.195 | 0.65 |
| PWD0315-5R6M0T | 5.6 | 0.195 | 0.60 |
| PWD0315-6R8M0T | 6.8 | 0.26 | 0.57 |
| PWD0315-100M0T | 10 | 0.39 | 0.45 |
| PWD0315-150M0T | 15 | 0.754 | 0.30 |
| PWD0315-220M0T | 22 | 0.923 | 0.25 |
| PWD0315-330M0T | 33 | 1.43 | 0.20 |
| PWD0315-390M0T | 39 | 1.69 | 0.17 |
| PWD0315-470M0T | 47 | 1.69 | 0.17 |
| PWD0315-680M0T | 68 | 2.86 | 0.13 |
| PWD0315-101M0T | 100 | 4.55 | 0.10 |
| PWD0315-221M0T | 220 | 10.92 | 0.07 |

Testing Conditions:

- All test data is base on 25 °C ambient .
Inductance measuring frequency: $L \leq 10\mu\text{H}$ at 100KHz/0.25V, $L > 10\mu\text{H}$ at 1KHz/0.25V.
- Operating temperature range - 40 °C to + 105 °C
- Isat(A): DC current will cause L0 to drop approximately 20 %
- The part temperature (ambient + temp rise) should not exceed 105 °C under worst cases.
- Storage Temperature: Under 25°C, Humidity < 65% RH.If product is preserved for more than 12 months, the solderability of their ter-minals may be deteriorated.

Reel & QTY information

| Series | MPQ(Pcs) | Reel (mm) | W / P (mm) |
|---------|----------|-----------|------------|
| PWD0315 | 3,000 | 13" | 12 / 8 |