# PMH 10XX Series Metal Material Power Inductor

## Features

- Metal material for large current and low DCR of super performance.
- Ultra low buzz noise due to molding construction type.
- Closed magnetic circuit design reduces leakage flux.


## Applications

- Notebooks,tablets
- Telecom Base Station,Industrial Control Board,Motor Control and etc.
- Server,DC-DC power for FPGA and etc.

## Yint P/N Information

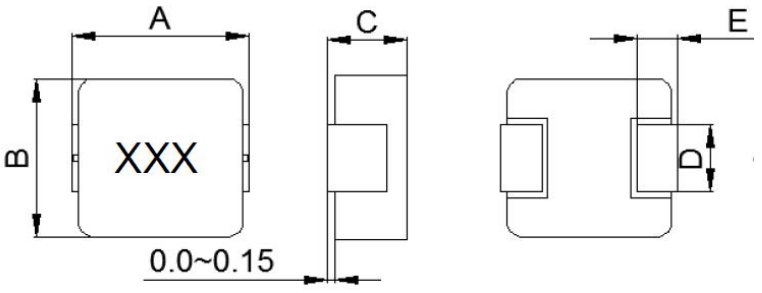
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|---|---|---|---|---|---|---|
| PM | H | 1030 | -R22 | M | 0 | T |

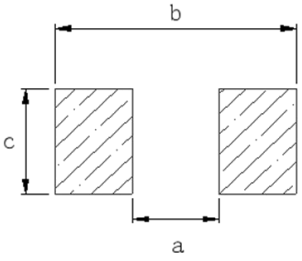
① Product series
② Material
③ Size
④ Inductance
⑤ Tolerance
⑥ Special code
⑦ Taping information

| ④ | Nominal Inductance[μH] |
|---|---|
| Example | Nominal Value[μH] |
| R22 | 0.22μH |
| 1R0 | 1.0 μH |
| 100 | 10 μH |
| ⑤ | Inductance Tolerance |
| M | ±20% |

## Shape & Dimension information

<Recommend Land Pattern>




Unit: mm

| Series | Dimensions | | | | | Land Pattern (Typ.) | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | a | b | c |
| PMH1030 | 11.5 max. | 10.0±0.3 | 2.8±0.2 | 3.0±0.5 | 2.0±0.5 | 5.4 | 13.6 | 4.1 |
| PMH1040 | 11.5 max. | 10.0±0.3 | 3.8±0.2 | 3.0±0.5 | 2.0±0.5 | 5.4 | 13.6 | 4.1 |
| PMH1050 | 11.5 max. | 10.0±0.3 | 4.8±0.2 | 3.0±0.5 | 2.0±0.5 | 5.4 | 13.6 | 4.1 |

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## Specification information

| Yint P/N | Inductance | DC Resistance | Saturation Current | Heating Rating Current |
|---|---|---|---|---|
| | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| | 100 kHz, 1V | Max. | Typ. | Typ. |
| PMH1030-R22M0T | 0.22 | 1.2 | 50 | 33 |
| PMH1030-R33M0T | 0.33 | 1.6 | 32 | 23 |
| PMH1030-R36M0T | 0.36 | 1.6 | 28 | 23 |
| PMH1030-R47M0T | 0.47 | 2.5 | 26 | 22 |
| PMH1030-1R0M0T | 1 | 6 | 21 | 15 |
| PMH1030-2R2M0T | 2.2 | 9 | 14 | 11 |
| PMH1030-3R3M0T | 3.3 | 16 | 12 | 9 |
| PMH1030-4R7M0T | 4.7 | 24 | 10 | 7 |
| PMH1030-8R2M0T | 8.2 | 45 | 7 | 5 |
| PMH1030-330M0T | 33 | 160 | 4 | 2.6 |
| - | - | - | - | - |
| PMH1040-R15M0T | 0.15 | 0.65 | 75 | 45 |
| PMH1040-R22M0T | 0.22 | 1 | 60 | 35 |
| PMH1040-R30M0T | 0.3 | 1.1 | 45 | 35 |
| PMH1040-R36M0T | 0.36 | 1.2 | 45 | 30 |
| PMH1040-R47M0T | 0.47 | 1.7 | 40 | 30 |
| PMH1040-R56M0T | 0.56 | 1.8 | 33 | 25 |
| PMH1040-R68M0T | 0.68 | 2.4 | 30 | 23 |
| PMH1040-R80M0T | 0.8 | 2.7 | 29 | 23 |
| PMH1040-1R0M0T | 1 | 3.3 | 28 | 19 |
| PMH1040-1R5M0T | 1.5 | 4.2 | 24 | 16 |
| PMH1040-2R2M0T | 2.2 | 7 | 16.5 | 12 |
| PMH1040-3R3M0T | 3.3 | 11.8 | 16 | 11 |
| PMH1040-4R7M0T | 4.7 | 20 | 13 | 9 |
| PMH1040-6R8M0T | 6.8 | 25 | 12 | 8.5 |
| PMH1040-8R2M0T | 8.2 | 27 | 9 | 8 |
| PMH1040-100M0T | 10 | 30 | 8.5 | 7.8 |
| PMH1040-150M0T | 15 | 45 | 7 | 6.5 |
| PMH1040-220M0T | 22 | 66 | 5.5 | 5 |
| PMH1040-330M0T | 33 | 92 | 4.8 | 4.4 |
| PMH1040-470M0T | 47 | 145 | 3.5 | 3.3 |
| PMH1040-680M0T | 68 | 195 | 3 | 2.5 |
| PMH1040-820M0T | 82 | 285 | 2.8 | 2.3 |
| PMH1040-101M0T | 100 | 340 | 2.3 | 2 |

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| Yint P/N | Inductance | DC Resistance | Saturation Current | Heating Rating Current |
|---|---|---|---|---|
| | L0 (μH) | DCR (mΩ) | Isat (A) | Irms (A) |
| | 100 kHz, 1V | Max. | Typ. | Typ. |
| PMH1050-R22M0T | 0.22 | 0.8 | 65 | 37 |
| PMH1050-1R0M0T | 1 | 3 | 30 | 23 |
| PMH1050-1R5M0T | 1.5 | 3.8 | 25 | 21 |
| PMH1050-2R2M0T | 2.2 | 6 | 19 | 15 |
| PMH1050-3R3M0T | 3.3 | 10 | 16 | 13 |
| PMH1050-4R7M0T | 4.7 | 14 | 15 | 11 |
| PMH1050-5R6M0T | 5.6 | 17 | 14 | 9.5 |
| PMH1050-6R8M0T | 6.8 | 18.5 | 14 | 9 |
| PMH1050-100M0T | 10 | 28 | 10 | 8 |
| PMH1050-150M0T | 15 | 42 | 7.5 | 6.5 |
| PMH1050-220M0T | 22 | 50 | 6 | 5.5 |
| PMH1050-330M0T | 33 | 86 | 5.2 | 4.8 |
| PMH1050-470M0T | 47 | 127 | 4.5 | 3.7 |
| PMH1050-101M0T | 100 | 290 | 2.8 | 2.1 |

**Testing Conditions:**

1.All test data is base on 25 °C ambient .
2.Operating temperature range - 55 °C to + 125 °C.
3.Irms (A):DC current will cause an approximate ΔT of 40 °C base on 25 °C ambient temperature.
4.Isat(A): DC current will cause L0 to drop approximately 30 %.
5.The part temperature (ambient + temp rise) should not exceed 125 °C under worst cases.

## Reel & QTY information

| Series | MPQ(Pcs) | Reel（W / P） |
|---|---|---|
| PMH1030 | 800 | 13″ （24 / 16） |
| PMH1040 | 500 | 13″ （24 / 16） |
| PMH1050 | 500 | 13″ （24 / 16） |