

PMH 04XX 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

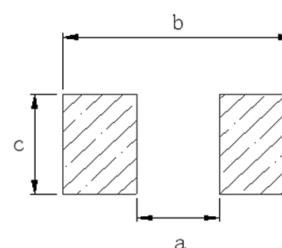
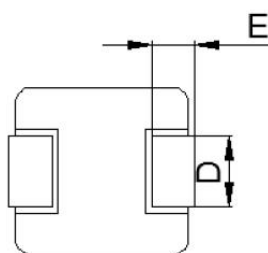
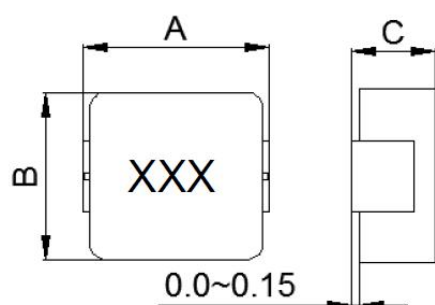
① PM ② H ③ 0410 ④ -2R2 ⑤ M ⑥ 0 ⑦ T

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

④ Nominal Inductance[μH]	
Example	Nominal Value[μH]
R15	0.15μH
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
PMH0410	4.1±0.20	4.1±0.20	0.8±0.2	1.8±0.2	0.8±0.2	2.2	4.4	2.2
PMH0412	4.4±0.35	4.2±0.25	1.0±0.2	2.0±0.3	0.8±0.3	2.2	5.2	2.5
PMH0420	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3	2.2	5.2	2.5

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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)
	±20 %, 100 kHz, 1V	Max.	Typ.	Typ.
PMH0410-2R2M0T	2.2	100	4.3	3.4
PMH0410-4R7M0T	4.7	160	2.5	2.6
PMH0410-6R8M0T	6.8	255	2.2	2
PMH0410-100M0T	10	336	1.8	1.5
-	-	-	-	-
PMH0412-R15M0T	0.15	9	15	7.5
PMH0412-R22M0T	0.22	11	11	7
PMH0412-R33M0T	0.33	19	8.4	6.5
PMH0412-R47M0T	0.47	21	6.8	6
PMH0412-R68M0T	0.68	36	6	4.7
PMH0412-1R0M0T	1	47	5.5	4.5
PMH0412-1R5M0T	1.5	75	4	3.25
PMH0412-2R2M0T	2.2	83.5	3	2.75
PMH0412-4R7M0T	4.7	195	2.2	1.8
-	-	-	-	-
PMH0420-R10M0T	0.1	4	22	13
PMH0420-R22M0T	0.22	6.6	12.5	9.5
PMH0420-R33M0T	0.33	11	12	10
PMH0420-R47M0T	0.47	14	9.5	7.5
PMH0420-R56M0T	0.56	16	9	7
PMH0420-R68M0T	0.68	18	8	7
PMH0420-1R0M0T	1	27	7	6
PMH0420-1R2M0T	1.2	27	6.5	6
PMH0420-1R5M0T	1.5	46	5.5	5
PMH0420-2R2M0T	2.2	58	5	4.5
PMH0420-3R3M0T	3.3	87	3.5	3.3
PMH0420-4R7M0T	4.7	105	3	2.8
PMH0420-6R8M0T	6.8	175	2.5	2.4
PMH0420-100M0T	10	282	2	1.6

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Testing Conditions:

1. All test data is based on 25 °C ambient .
2. Operating temperature range - 55 °C to + 125 °C
3. I_{rms} (A): DC current will cause an approximate ΔT of 40 °C based on 25 °C ambient temperature
4. I_{sat} (A): DC current will cause L_0 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)
PMH0410	5,000	13" (12 / 8)
PMH0412	3,000	13" (12 / 8)
PMH0420	3,000	13" (12 / 8)