

## PMH 06XX 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.

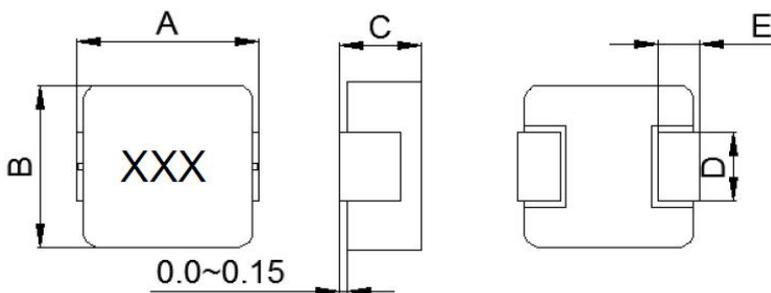
### Yint P/N Information

① PM ② H ③ 0610 ④ -4R7 ⑤ M ⑥ 0 ⑦ T

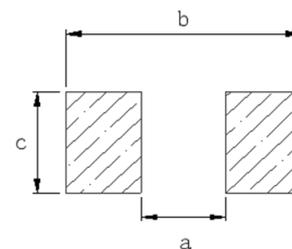
- ① Product series
- ② Material
- ③ Size
- ④ Inductance
- ⑤ Tolerance
- ⑥ Special code
- ⑦ Taping information

④ Nominal Inductance[ $\mu$ H]	
Example	Nominal Value[ $\mu$ H]
R15	0.15 $\mu$ H
4R7	4.7 $\mu$ H
100	10 $\mu$ H
⑤ Inductance Tolerance	
M	$\pm 20\%$

### Shape & Dimension information



### <Recommend Land Pattern>



Unit: mm

Series	Dimensions					Land Pattern (Typ.)		
	A	B	C	D	E	a	b	c
PMH0610	6.1 $\pm$ 0.3	6.1 $\pm$ 0.3	0.8 $\pm$ 0.2	4.0 $\pm$ 0.3	1.75 $\pm$ 0.3	2.8	7.5	4.5
PMH0612	6.1 $\pm$ 0.3	6.1 $\pm$ 0.3	1.0 $\pm$ 0.2	4.0 $\pm$ 0.3	1.75 $\pm$ 0.3	2.8	7.5	4.5
PMH0615	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	1.3 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5
PMH0618	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	1.6 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5
PMH0624	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	2.2 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5
PMH0630	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	2.8 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5
PMH0640	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	3.8 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5
PMH0650	7.0 $\pm$ 0.3	6.6 $\pm$ 0.2	4.8 $\pm$ 0.2	3.0 $\pm$ 0.3	1.6 $\pm$ 0.3	3.7	8.4	3.5

## PMH Series Metal Material Power Inductor

## 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.
PMH0610-4R7M0T	4.7	172	2.8	2.2
PMH0610-6R8M0T	6.8	197	2.5	2
PMH0610-100M0T	10	310	2.1	1.6
-	-	-	-	-
PMH0612-4R7M0T	4.7	103	3.6	3.2
-	-	-	-	-
PMH0615-R47M0T	0.47	8.5	16	10
PMH0615-R56M0T	0.56	11	14	9
PMH0615-R68M0T	0.68	12	12	8.5
PMH0615-R82M0T	0.82	17	10	8
PMH0615-1R0M0T	1	21	9	6
PMH0615-2R2M0T	2.2	54	7	3.8
PMH0615-3R3M0T	3.3	63	5.5	3.5
PMH0615-4R7M0T	4.7	85	5	3.2
PMH0615-6R8M0T	6.8	135	4	2.5
PMH0615-100M0T	10	175	3	2
-	-	-	-	-
PMH0618-R10M0T	0.1	2.3	38	25
PMH0618-R22M0T	0.22	3.5	24	22
PMH0618-R47M0T	0.47	8.4	18	11.5
PMH0618-R68M0T	0.68	12	16.5	9.5
PMH0618-1R0M0T	1	16	12	8.5
PMH0618-1R5M0T	1.5	26	9.2	8
PMH0618-2R2M0T	2.2	35	8	7
PMH0618-3R3M0T	3.3	50	6	4.5
PMH0618-4R7M0T	4.7	62	5	4
PMH0618-6R8M0T	6.8	110	4.5	3
PMH0618-100M0T	10	155	4	2.3
PMH0618-220M0T	22	350	2.3	1.8
-	-	-	-	-
PMH0624-R22M0T	0.22	3	34	21
PMH0624-R33M0T	0.33	4.1	24.5	18
PMH0624-R47M0T	0.47	5.1	22	15
PMH0624-R56M0T	0.56	6.5	17	13

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	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	Max.	Typ.	Typ.
PMH0624-R68M0T	0.68	7	16	12
PMH0624-1R0M0T	1	13.5	15	9
PMH0624-1R5M0T	1.5	20	13.5	8.2
PMH0624-2R2M0T	2.2	28	10	7
PMH0624-3R3M0T	3.3	39	8	5.5
PMH0624-4R7M0T	4.7	50	6.5	5
PMH0624-6R8M0T	6.8	70	6	4
PMH0624-100M0T	10	101	4	3.1
PMH0624-150M0T	15	160	3.3	2.5
PMH0624-220M0T	22	230	2.5	2
-	-	-	-	-
PMH0630-R22M0T	0.22	3	34	24
PMH0630-R33M0T	0.33	3.5	25	21
PMH0630-R47M0T	0.47	4.1	20	18
PMH0630-R56M0T	0.56	4.5	18	16.5
PMH0630-R68M0T	0.68	5.3	17	16
PMH0630-R82M0T	0.82	6	16	14
PMH0630-1R0M0T	1	7.4	15	12
PMH0630-1R5M0T	1.5	12.1	12	12
PMH0630-2R2M0T	2.2	15	10	9.5
PMH0630-3R3M0T	3.3	22	9.5	8.5
PMH0630-4R7M0T	4.7	33	9	6
PMH0630-5R6M0T	5.6	42	6.5	5.5
PMH0630-6R8M0T	6.8	48	6	5
PMH0630-8R2M0T	8.2	60	5.5	5
PMH0630-100M0T	10	68	5.5	4.5
PMH0630-150M0T	15	113	4	3
PMH0630-220M0T	22	170	3	2.5
PMH0630-330M0T	33	270	2.5	2
PMH0630-470M0T	47	385	2	1.5
-	-	-	-	-
PMH0640-R68M0T	0.68	4.8	19	17
PMH0640-1R0M0T	1	6.6	16	13.5
PMH0640-1R5M0T	1.5	10	12.5	12.4

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	L0 (μH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	Max.	Typ.	Typ.
PMH0640-2R2M0T	2.2	14	11	10
PMH0640-3R3M0T	3.3	20	9.5	8.5
PMH0640-4R7M0T	4.7	30	9	6.5
PMH0640-6R8M0T	6.8	45	6.5	5.5
PMH0640-8R2M0T	8.2	55	6	5.2
PMH0640-100M0T	10	65	6	4.8
PMH0640-150M0T	15	95	4.5	3.7
PMH0640-220M0T	22	125	4	3.3
PMH0640-330M0T	33	240	3	2.2
PMH0640-470M0T	47	320	2.5	1.8
-	-	-	-	-
PMH0650-R47M0T	0.47	3.9	21	20
PMH0650-R68M0T	0.68	4.5	18	16.5
PMH0650-1R0M0T	1	6.6	16	12
PMH0650-1R5M0T	1.5	10	13	9.5
PMH0650-2R2M0T	2.2	12.5	11	9
PMH0650-3R3M0T	3.3	22	10	8.5
PMH0650-4R7M0T	4.7	29	8	6
PMH0650-6R8M0T	6.8	41	6.3	5.8
PMH0650-8R2M0T	8.2	48	5.5	5.5
PMH0650-100M0T	10	60	5.3	4.5
PMH0650-150M0T	15	90	4	3.1
PMH0650-220M0T	22	140	3.5	2.6
PMH0650-330M0T	33	190	3	2.3
PMH0650-470M0T	47	230	2.6	2

**Testing Conditions:**

1. All test data is based 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 based 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.

## PMH Series Metal Material Power Inductor

## Reel &amp; QTY information

Series	MPQ(Pcs)	Reel (W / P)
PMH0610	3,000	13" 16 / 12)
PMH0612	3,000	13" 16 / 12)
PMH0615	2,000	13" 16 / 12)
PMH0618	2,000	13" 16 / 12)
PMH0624	1,500	13" 16 / 12)
PMH0630	1,500	13" 16 / 12)
PMH0640	1,000	13" 16 / 12)
PMH0650	1,000	13" 16 / 12)