

PMH 05XX 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.



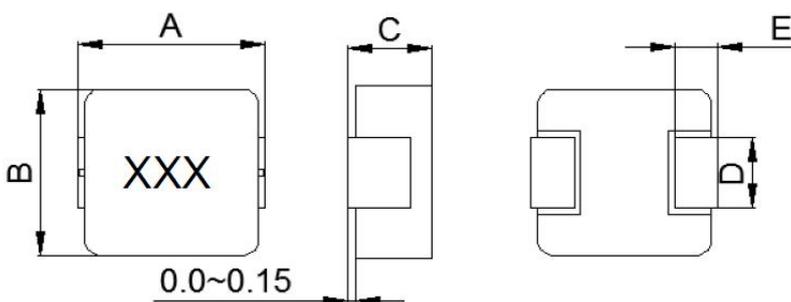
Yint P/N Information

① PM ② H ③ 0518 ④ -R47 ⑤ M ⑥ 0 ⑦ T

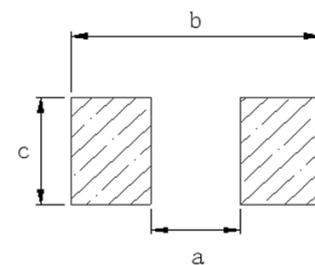
- ① Product series
- ② Material
- ③ Size
- ④ Inductance
- ⑤ Tolerance
- ⑥ Special code
- ⑦ Taping information

④ Nominal Inductance[μH]	
Example	Nominal Value[μH]
R47	0.47 μH
1R0	1.0 μH
100	10 μH
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
PMH0518	5.4 \pm 0.35	5.2 \pm 0.2	1.6 \pm 0.2	2.2 \pm 0.3	1.2 \pm 0.2	2.2	6	2.5
PMH0530	5.4 \pm 0.35	5.2 \pm 0.2	2.8 \pm 0.2	2.2 \pm 0.3	1.2 \pm 0.2	2.2	6	2.5

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.
PMH0518-R47M0T	0.47	9	15.5	10.5
PMH0518-R56M0T	0.56	10	15	9.5
PMH0518-R68M0T	0.68	13.8	11.2	8.9
PMH0518-1R0M0T	1	17	9	8
PMH0518-1R5M0T	1.5	26	8	7.5
PMH0518-2R2M0T	2.2	35	6.5	5
PMH0518-3R3M0T	3.3	58	5	4.5
PMH0518-4R7M0T	4.7	85	4	3.5
PMH0518-6R8M0T	6.8	120	3.4	2.8
PMH0518-100M0T	10	155	3	2.5
-	-	-	-	-
PMH0530-R10M0T	0.1	3	30	25
PMH0530-R20M0T	0.2	3.9	20	14
PMH0530-R33M0T	0.33	5.5	18	14
PMH0530-R47M0T	0.47	8.5	15	11
PMH0530-R68M0T	0.68	12	11.5	9
PMH0530-1R0M0T	1	14	10	8.5
PMH0530-1R2M0T	1.2	16	9.5	8.5
PMH0530-1R5M0T	1.5	25	9	8.2
PMH0530-2R2M0T	2.2	29	7	7
PMH0530-3R3M0T	3.3	38	6	5.5
PMH0530-4R7M0T	4.7	60	4.6	4.5
PMH0530-6R8M0T	6.8	90	3.6	3.5
PMH0530-100M0T	10	125	3.5	3.2

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.

Reel & QTY information

Series	MPQ(Pcs)	Reel (W / P)
PMH0518	2,000	13" (12 / 8)
PMH0530	2,000	13" (12 / 8)