

# PMT 05XX Series Carbonyl Molding Power Inductor

## Features

- Carbonyl group 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.

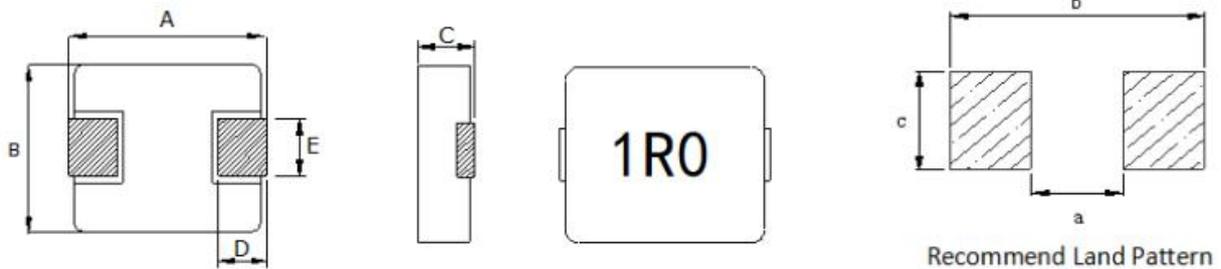
## Yint P/N Information

- ① PM ② T ③ 0520 - ④ 1R0 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[ $\mu\text{H}$ ]	
Example	Nominal Value [ $\mu\text{H}$ ]
1R0	1.0 $\mu\text{H}$
4R7	4.7 $\mu\text{H}$
100	10 $\mu\text{H}$
⑤ Inductance Tolerance	
M	$\pm 20\%$
N	$\pm 30\%$

## Shape & Dimension information



Unit: mm

Series	Dimensions					Land Pattern (Typ.)		
	A	B	C	D	E	a	b	c
PMT0520	5.7 $\pm$ 0.3	5.2 $\pm$ 0.2	1.8 $\pm$ 0.2	1.2 $\pm$ 0.2	2.0 $\pm$ 0.3	2.2	6	2.5
PMT0530	5.7 $\pm$ 0.3	5.2 $\pm$ 0.2	2.8 $\pm$ 0.2	1.2 $\pm$ 0.2	2.0 $\pm$ 0.3	2.2	6	2.5

## PMT 05XX Series Carbonyl Molding Power Inductor

## 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.
PMT0520-R22M0T	0.22	5.5	25	15
PMT0520-R33M0T	0.33	7.3	21.3	12
PMT0520-R47M0T	0.47	8.6	18	11.5
PMT0520-R68M0T	0.68	12.4	12.8	10
PMT0520-1R0M0T	1.0	20	13.7	7.0
PMT0520-1R5M0T	1.5	30.5	9.8	5.5
PMT0520-2R2M0T	2.2	50	9.0	4.2
PMT0520-3R3M0T	3.3	76	7.3	3.3
PMT0520-4R7M0T	4.7	116	5.0	2.8
PMT0520-6R8M0T	6.8	150	3.8	2.4
PMT0520-8R2M0T	8.2	171	3.5	2.3
PMT0520-100M0T	10	199	3.4	2.3
PMT0520-150M0T	15	270	2.8	1.9
PMT0520-220M0T	22	390	1.8	1.5
-	-	-	-	-
PMT0530-R22M0T	0.22	4.4	21	15.5
PMT0530-R33M0T	0.33	5.0	18	14
PMT0530-R47M0T	0.47	7.4	16	12
PMT0530-R68M0T	0.68	12	14	8.5
PMT0530-R82M0T	0.82	13	12.5	8.0
PMT0530-1R0M0T	1.0	14	11	7.0
PMT0530-1R5M0T	1.5	25	10	6.0
PMT0530-2R2M0T	2.2	35	9.0	5.5
PMT0530-3R3M0T	3.3	38	8.0	5.0
PMT0530-4R7M0T	4.7	53	6.0	4.6
PMT0530-5R6M0T	5.6	63	4.5	4.25
PMT0530-6R8M0T	6.8	76.2	4.3	4.0
PMT0530-100M0T	10	128	3.5	2.75
PMT0530-150M0T	15	190	2.6	2.1
PMT0530-220M0T	22	250	1.7	1.9
-	-	-	-	-

## PMT 05XX Series Carbonyl Molding Power Inductor

**Testing Conditions:**

- 1.All test data is base on 25 °C ambient .
- 2.Operating temperature range - 40°C to + 125 °C
- 3.Irms (A):DC current will cause an approximate  $\Delta T$  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.
- 6.Storage Temperature: Under 25°C, Humidity < 65% RH.If product is preserved for more than 6 months, the solderability of their ter-minals may be deteriorated.

**Reel & QTY information**

Series	MPQ(Pcs)	Reel (W / P)
PMT0520	2,000	13" ( 12 / 8)
PMT0530	2,000	13" ( 12 / 8)