

# PMT 12XX 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.

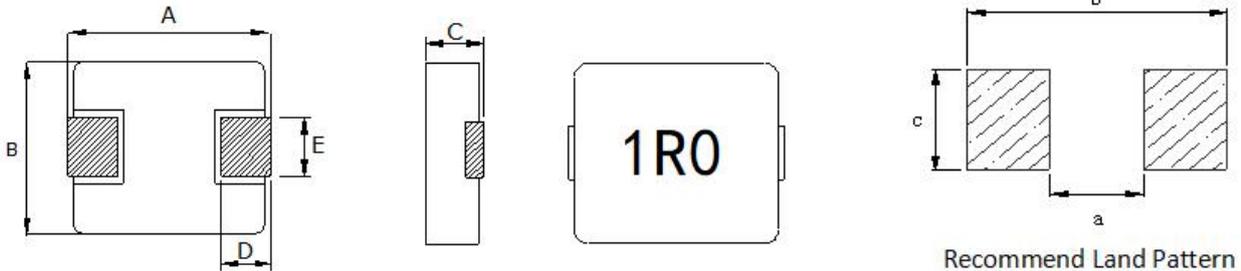
## Yint P/N Information

① PM ② T ③ 1235 - 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[ $\mu$ H]	
Example	Nominal Value [ $\mu$ H]
1R0	1.0 $\mu$ H
4R7	4.7 $\mu$ H
100	10 $\mu$ 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
PMT1235	13.5 $\pm$ 0.5	12.6 $\pm$ 0.3	3.3 $\pm$ 0.2	2.0 $\pm$ 0.5	4.2 typ	8	14.2	5
PMT1250	13.5 $\pm$ 0.5	12.6 $\pm$ 0.3	4.7 $\pm$ 0.3	2.0 $\pm$ 0.5	4.2 typ	8	14.2	5
PMT1260	13.5 $\pm$ 0.5	12.6 $\pm$ 0.3	5.7 $\pm$ 0.3	2.0 $\pm$ 0.5	4.2 typ	8	14.2	5
PMT1265	13.5 $\pm$ 0.5	12.6 $\pm$ 0.3	6.2 $\pm$ 0.3	2.0 $\pm$ 0.5	4.2 typ	8	14.2	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)
	100 kHz, 1V	Max.	Typ.	Typ.
PMT1235-R47M0T	0.47	2.0	55	32
PMT1235-R68M0T	0.68	2.5	49	28
PMT1235-R82M0T	0.82	3.0	44	25
PMT1235-1R0M1T	1.0	3.5	40	24
PMT1235-1R5M1T	1.5	5.5	35	19
PMT1235-2R2M1T	2.2	8.0	29	16
PMT1235-3R3M1T	3.3	12	27	12
PMT1235-4R7M1T	4.7	18	22	10
PMT1235-5R6M1T	5.6	22	19	9.5
PMT1235-6R8M1T	6.8	24	18	9.0
PMT1235-8R2M1T	8.2	28	16	8.5
PMT1235-100M1T	10	34	14	7.5
PMT1235-150M1T	15	65	10	6.5
PMT1235-220M1T	22	99	7.0	4.5
PMT1235-330M1T	33	160	6.0	3.5
PMT1235-470M1T	47	218	5.5	3.0
-	-	-	-	-
PMT1250-R47M0T	0.47	1.1	65	38
PMT1250-R56M0T	0.56	1.5	55	36
PMT1250-R68M0T	0.68	1.7	54	34
PMT1250-R82M0T	0.82	2.1	52	31
PMT1250-1R0M0T	1.0	2.5	50	29
PMT1250-1R5M0T	1.5	3.3	48	27
PMT1250-2R2M1T	2.2	5.5	32	20
PMT1250-3R3M1T	3.3	9.2	32	15
PMT1250-4R7M1T	4.7	15	27	12
PMT1250-5R6M1T	5.6	16.5	22	11.5
PMT1250-6R8M1T	6.8	18.5	21	11
PMT1250-8R2M1T	8.2	22.5	18	9.5
PMT1250-100M1T	10	25.5	16	9.0
PMT1250-150M1T	15	38	13	8.2
PMT1250-220M1T	22	58	10	6.5
PMT1250-330M1T	33	88	8.0	5.0
-	-	-	-	-

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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.
PMT1260-R47M0T	0.47	1.3	64	38
PMT1260-R68M0T	0.68	1.7	57	33
PMT1260-1R0M0T	1.0	2.4	53	29
PMT1260-1R5M0T	1.5	3.2	50	26
PMT1260-2R2M1T	2.2	4.7	43	21
PMT1260-3R3M1T	3.3	7.1	35	17
PMT1260-4R7M1T	4.7	11.5	30	16
PMT1260-6R8M1T	6.8	13.8	25	15
PMT1260-8R2M1T	8.2	16	23	11
PMT1260-100M1T	10	20.7	21	11
PMT1260-150M1T	15	29	16	9.0
PMT1260-220M1T	22	39.5	14	8.0
PMT1260-330M1T	33	75	12	6.0
PMT1260-470M1T	47	90	11	5.5
PMT1260-680M1T	68	140	9.0	5.0
PMT1260-820M1T	82	161	8.5	4.5
PMT1260-101M1T	100	200	8.0	4.0
PMT1260-121M1T	120	235	7.0	3.5
PMT1260-151M1T	150	350	6.0	3.0
-	-	-	-	-
PMT1265-R47M0T	0.47	1.2	63	41
PMT1265-R68M0T	0.68	1.5	55	35
PMT1265-1R0M0T	1.0	2.3	48	30
PMT1265-1R5M0T	1.5	3.0	45	27
PMT1265-2R2M1T	2.2	4.2	37	22
PMT1265-3R3M1T	3.3	6.8	30	18
PMT1265-4R7M1T	4.7	8.4	28	13.5
PMT1265-6R8M1T	6.8	11.5	18	11.5
PMT1265-8R2M1T	8.2	15.5	16	10.5
PMT1265-100M1T	10	16.5	15.5	10
PMT1265-150M1T	15	28	13	9.0
PMT1265-220M1T	22	37	12	9.0
PMT1265-330M1T	33	58	11	8.0
PMT1265-470M1T	47	90	9.5	6.5
PMT1265-680M1T	68	130	7.8	4.8
-	-	-	-	-

## PMT 12XX Series Carbonyl Molding Power Inductor

### Testing Conditions:

1. All test data is based 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 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.
6. Storage Temperature: Under 25°C, Humidity < 65% RH. If product is preserved for more than 6 months, the solderability of their terminals may be deteriorated.

### Reel & QTY information

Series	MPQ(Pcs)	Reel (W / P)
PMT1235	500	13" ( 24 / 16)
PMT1250	500	13" ( 24 / 16)
PMT1260	500	13" ( 24 / 16)
PMT1265	500	13" ( 24 / 16)