

PMT 06XX 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.

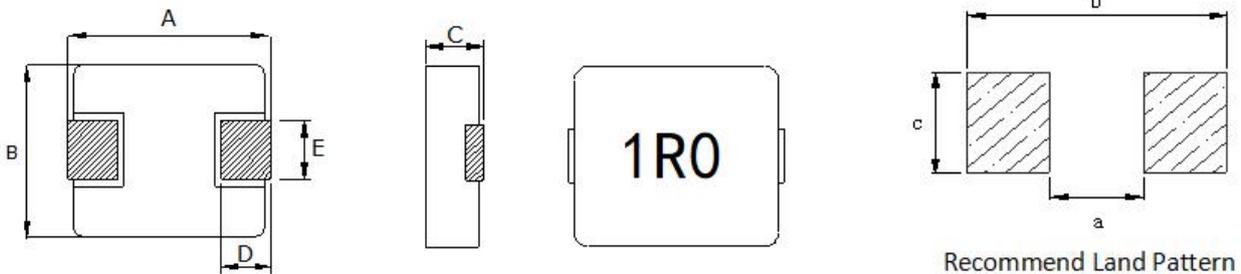
Yint P/N Information

- ① PM ② T ③ 0618 - ④ R22 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[μ H]	
Example	Nominal Value [μ H]
R22	0.22 μ H
4R7	4.7 μ H
100	10 μ 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
PMT0618	7.3 \pm 0.3	6.6 \pm 0.3	1.6 \pm 0.2	1.6 \pm 0.3	3.0 \pm 0.3	3.7	8.4	3.5
PMT0624	7.3 \pm 0.3	6.6 \pm 0.3	2.2 \pm 0.2	1.6 \pm 0.3	3.0 \pm 0.3	3.7	8.4	3.5
PMT0630	7.3 \pm 0.3	6.6 \pm 0.3	2.8 \pm 0.2	1.6 \pm 0.3	3.0 \pm 0.3	3.7	8.4	3.5
PMT0650	7.3 \pm 0.3	6.6 \pm 0.3	4.8 \pm 0.2	1.6 \pm 0.3	3.0 \pm 0.3	3.7	8.4	3.5

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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.
PMT0618-R22M0T	0.22	3	26	16
PMT0618-R33M0T	0.33	5.8	22	14
PMT0618-R47M0T	0.47	7.4	18	12
PMT0618-R68M0T	0.68	11	17	10
PMT0618-R82M0T	0.82	14	15.5	8.5
PMT0618-1R0M0T	1.0	17	14	7
PMT0618-1R5M0T	1.5	25.2	13	6
PMT0618-2R2M0T	2.2	35	11	6
PMT0618-3R3M0T	3.3	46	9	5
PMT0618-4R7M0T	4.7	76	7	4
PMT0618-6R8M0T	6.8	104	5.5	3
PMT0618-100M0T	10	160	3.5	2.3
-	-	-	-	-
PMT0624-R15M0T	0.15	2.3	45	30
PMT0624-R22M0T	0.22	3.2	34	21
PMT0624-R33M0T	0.33	4.4	30	18
PMT0624-R47M0T	0.47	5.1	26	15
PMT0624-R68M0T	0.68	7.2	21	13
PMT0624-R82M0T	0.82	9.5	17	11
PMT0624-1R0M0T	1.0	13.5	16	10
PMT0624-1R5M0T	1.5	20	15	9
PMT0624-2R2M0T	2.2	28	14	7
PMT0624-3R3M0T	3.3	39	10	6
PMT0624-4R7M0T	4.7	50	9	5.5
PMT0624-6R8M0T	6.8	72	7	4
PMT0624-100M0T	10	101	5	3.2
-	-	-	-	-
PMT0630-R10N0T	0.1±30%	1.7	60.0	32.5
PMT0630-R15M0T	0.15	1.9	45.0	27.0
PMT0630-R22M0T	0.22	2.8	40.0	23.0
PMT0630-R33M0T	0.33	3.9	32.0	20.0
PMT0630-R47M0T	0.47	4.2	26.0	17.5
PMT0630-R56M0T	0.56	5.0	25.5	16.5
PMT0630-R68M0T	0.68	5.5	25.0	15.5

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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.
PMT0630-R82M0T	0.82	8	24.0	13.0
PMT0630-1R0M0T	1.0	10	22.0	11.0
PMT0630-1R5M0T	1.5	15.0	18.0	9.0
PMT0630-2R2M0T	2.2	20.0	14.0	8.0
PMT0630-3R3M0T	3.3	30	13.5	6.0
PMT0630-4R7M0T	4.7	40	10.0	5.5
PMT0630-5R6M0T	5.6	48	9.0	5.0
PMT0630-6R8M0T	6.8	60	8.0	4.5
PMT0630-8R2M0T	8.2	68.0	7.5	4.0
PMT0630-100M0T	10	85	6.0	3.5
PMT0630-150M0T	15	123	4	3
PMT0630-220M0T	22	190	3.5	2
PMT0630-330M0T	33	240	2.5	2
PMT0630-470M0T	47	363	2	1.75
-	-	-	-	-
PMT0650-R22M0T	0.22	1.9	35	25
PMT0650-R33M0T	0.33	3	32	25
PMT0650-R47M0T	0.47	3.9	30	22
PMT0650-R68M0T	0.68	4.5	24	18
PMT0650-R82M0T	0.82	4.9	22	16.5
PMT0650-1R0M0T	1.0	6.5	20	15
PMT0650-1R2M0T	1.2	7.5	18	14
PMT0650-1R5M0T	1.5	9	16.5	12
PMT0650-2R2M0T	2.2	12	14	10
PMT0650-3R3M0T	3.3	20.9	12	8
PMT0650-4R7M0T	4.7	30.8	10	6.5
PMT0650-5R6M0T	5.6	49	9	6
PMT0650-6R8M0T	6.8	51.5	8.5	5.5
PMT0650-8R2M0T	8.2	63	8	5
PMT0650-100M0T	10	69	7.5	4
PMT0650-150M0T	15	92	6	3.5
PMT0650-220M0T	22	170	5.5	2.5
PMT0650-330M0T	33	200	3.5	2

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Testing Conditions:

1. All test data is based on 25 °C ambient .
2. Operating temperature range - 40°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 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)
PMT0618	2,000	13" (16 / 12)
PMT0624	1,500	13" (16 / 12)
PMT0630	1,500	13" (16 / 12)
PMT0650	1,000	13" (16 / 12)