

PMT 1770 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.

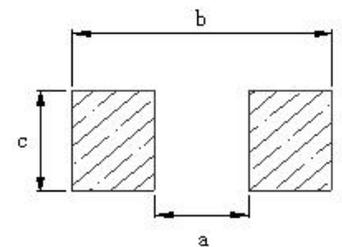
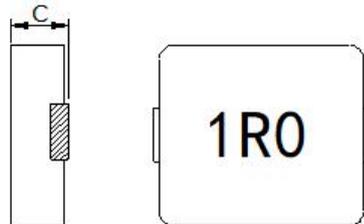
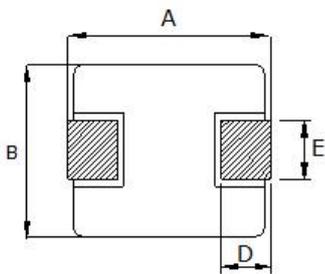
Yint P/N Information

① PM ② T ③ 1770 - 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[μ H]	
Example	Nominal Value [μ H]
1R0	1.0 μ H
4R7	4.7 μ H
100	10 μ H
⑤ Inductance Tolerance	
M	$\pm 20\%$
N	$\pm 30\%$

Shape & Dimension information



Recommend Land Pattern

Unit: mm

Series	Dimensions					Land Pattern (Typ.)		
	A	B	C	D	E	a	b	c
PMT1770	17.5 \pm 0.5	17.0 \pm 0.3	7.0max.	2.5 \pm 0.5	12 \pm 0.3	11.2	18.2	12.8

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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.
PMT1770-1R0M0T	1.0	2.0	70	52
PMT1770-1R5M0T	1.5	2.5	65	47
PMT1770-2R2M0T	2.2	2.7	62	43.5
PMT1770-3R3M0T	3.3	3.9	54	28
PMT1770-4R7M0T	4.7	5.5	50	25
PMT1770-6R8M0T	6.8	9.2	39	19
PMT1770-8R2M0T	8.2	10.8	31	18
PMT1770-100M0T	10	13.0	29	16.5
PMT1770-150M0T	15	20.5	27	12.5
PMT1770-220M0T	22	26.5	23	12
PMT1770-330M0T	33	44	20	10.7
PMT1770-390M0T	39	48	18	9.2
PMT1770-470M0T	47	55	16	8.7
PMT1770-560M0T	56	62	15	7.8
PMT1770-680M0T	68	80	13	7.0
PMT1770-101M0T	100	118	12	5.3

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 ΔT 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)
PMT1770	200	13" (32 / 24)