PMT 0420 Series Carbonyl Molding Power Inductor

Features

- Carbonyl group for large current and low DCR of super perfomance.
- 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.

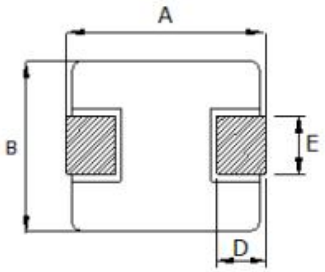
Yint P/N Information

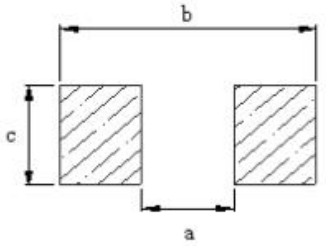
①	②	③	④	⑤	⑥	⑦
PM	T	0420	- 1R0	M	0	T

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]
1R0	1.0 μH
4R7	4.7 μH
100	10 μH
⑤	Inductance Tolerance
M	±20%
N	±30%

Shape & Dimension information





Recommend Land Pattern

Unit: mm

Series	Dimensions					Land Pattern (Typ.)		
	A	B	C	D	E	a	b	c
PMT0420	4.4±0.35	4.2±0.25	1.8±0.2	0.8±0.3	2.0±0.3	2.2	5.2	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.
PMT0420-R33M0T	0.33	8.6	18	10
PMT0420-R47M0T	0.47	14	12	8
PMT0420-R68M0T	0.68	19	10	7
PMT0420-1R0M0T	1.0	27	8.5	5
PMT0420-1R5M0T	1.5	42	7	4.5
PMT0420-2R2M0T	2.2	61	6	4
PMT0420-3R3M0T	3.3	76	4	3.5
PMT0420-4R7M0T	4.7	105	3.5	2.6
PMT0420-6R8M0T	6.8	172	2.8	2.1
PMT0420-100M0T	10	243	2.3	1.8

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℃,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）
PMT0420	3,000	13″ (12 / 8)