

PMS 04XX Series Molding Power Inductor

Features

- Magnetic shielded structure.
- Ultra low DCR with super high DC current.
- Low loss and high efficiency with wider switching frequency operation.

Applications

- Notebooks, tablets.
- Telecom Base Station, Industrial Control Board, Motor Control and etc.
- Server, DC-DC power for FPGA and etc.



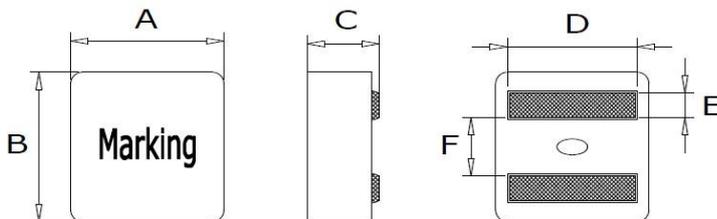
Yint P/N Information

- ① PM ② S ③ 0420 ④ -R10 ⑤ M ⑥ 0 ⑦ T

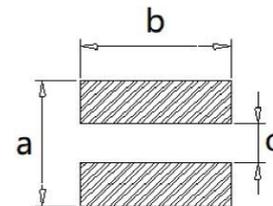
- ① Product series ⑤ Tolerance
 ② Material ⑥ Special code
 ③ Size ⑦ Taping information
 ④ Inductance

④ Nominal Inductance[μH]	
Example	Nominal Value [μH]
R10	0.10 μH
4R7	4.7 μH
100	10 μH
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	F	a	b	c
PMS0420	4.1 \pm 0.2	4.1 \pm 0.2	1.9 \pm 0.2	3.4 \pm 0.3	0.88 \pm 0.3	1.7 \pm 0.3	3.4	3.8	1.4
PMS0430	4.1 \pm 0.25	4.1 \pm 0.25	2.8 \pm 0.2	3.4 \pm 0.3	0.88 \pm 0.3	1.7 \pm 0.3	3.4	3.8	1.4

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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)	
	±20 %, 100 kHz, 1V	Max.	Max.	Typ.	20°C rise	40°C rise
PMS0420-R10M0T	0.10	2.42	33.0	38.0	13.5	18.0
PMS0420-R22M0T	0.22	4.60	18.8	19.5	13.0	16.8
PMS0420-R36M0T	0.36	6.30	15.0	17.0	11.0	14.5
PMS0420-R40M0T	0.40	7.73	13.5	15.5	10.0	14.0
PMS0420-R47M0T	0.47	8.58	13.0	14.5	9.0	12.5
PMS0420-R56M0T	0.56	9.30	12.6	14.0	8.5	12.0
PMS0420-R60M0T	0.60	9.52	12.3	13.7	8.0	11.7
PMS0420-R72M0T	0.72	11.6	10.6	12.0	7.6	10.5
PMS0420-1R0M0T	1.0	14.6	8.80	9.60	6.8	9.6
PMS0420-1R2M0T	1.2	17.9	7.80	9.00	6.6	9.0
PMS0420-1R5M0T	1.5	23.5	7.40	8.00	5.8	7.6
PMS0420-1R8M0T	1.8	28.0	7.00	7.50	5.2	7.0
PMS0420-2R2M0T	2.2	38.7	6.00	6.50	4.6	5.6
-	-	-	-	-	-	-
PMS0430-R47M0T	0.47	7.26	15.0	17.0	10.0	14.0
PMS0430-R90M0T	0.90	10.1	9.0	10.0	8.2	11.2
PMS0430-1R0M0T	1.0	10.1	9.2	9.8	8.0	11.0
PMS0430-1R2M0T	1.2	11.5	8.7	9.2	7.8	9.8
PMS0430-1R5M0T	1.5	13.2	7.0	8.0	7.0	9.0
PMS0430-2R2M0T	2.2	22.6	6.1	7.0	6.0	7.8
PMS0430-3R3M0T	3.3	28.6	5.3	6.2	5.0	6.6
PMS0430-4R7M0T	4.7	44.1	4.0	4.5	3.9	5.1
PMS0430-6R8M0T	6.8	74.1	3.0	3.6	3.0	3.9

Testing Conditions:

1. All test data is based on 25 °C ambient .
2. Operating temperature range - 55 °C to + 125 °C
3. Irms (A): DC current will cause an approximate ΔT 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.

Reel & QTY information

Series	MPQ(Pcs)	Reel (W / P)
PMS0420	3,000	13" (12 / 8)
PMS0430	3,000	13" (12 / 8)