

# PMS 15XX 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.



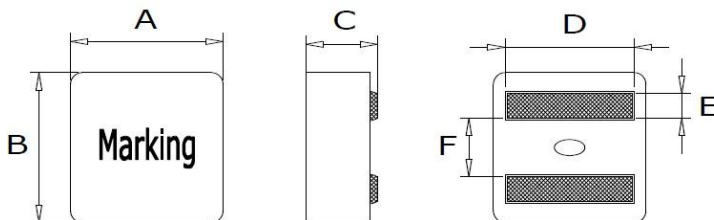
## Yint P/N Information

- ① PM   ② S   ③ 1580   ④ -1R0   ⑤ M   ⑥ 0   ⑦ T

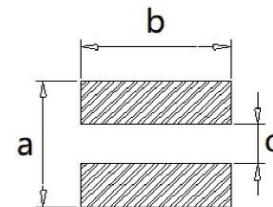
- ① Product series   ⑤ Tolerance  
 ② Material   ⑥ Special code  
 ③ Size   ⑦ Taping information  
 ④ Inductance

④ Nominal Inductance[ $\mu$ 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



### <Recommend Land Pattern>



Unit: mm

Series	Dimensions						Land Pattern (Typ.)		
	A	B	C	D	E	F	a	b	c
PMS1580	16.5 $\pm$ 0.3	15.5 $\pm$ 0.3	7.7 $\pm$ 0.3	13.2 $\pm$ 0.5	3.2 $\pm$ 0.3	7.0 $\pm$ 0.5	15.0	15.0	6.0
PMS15A0	16.5 $\pm$ 0.3	15.5 $\pm$ 0.3	9.7 $\pm$ 0.3	13.2 $\pm$ 0.5	3.2 $\pm$ 0.3	7.0 $\pm$ 0.3	15.0	15.0	6.0
PMS15A3	16.5 $\pm$ 0.3	15.5 $\pm$ 0.3	12.7 $\pm$ 0.3	13.2 $\pm$ 0.5	3.2 $\pm$ 0.3	7.0 $\pm$ 0.3	15.0	15.0	6.0

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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.	Max.	Typ.	Max.
PMS1580-2R0M0T	2.0	2.21	52.0	57.0	40.0
PMS1580-2R2M0T	2.2	2.48	49.0	55.0	37.0
PMS1580-3R0M0T	3.0	3.00	41.0	46.0	34.5
PMS1580-4R2M0T	4.2	4.68	33.0	38.0	27.0
PMS1580-5R3M0T	5.3	5.34	31.0	35.0	26.0
PMS1580-6R2M0T	6.2	6.50	31.0	34.0	23.0
PMS1580-7R2M0T	7.2	7.20	29.0	32.0	21.0
PMS1580-8R2M0T	8.2	7.92	25.0	28.0	19.0
-	-	-	-	-	-
PMS15A0-4R7M0T	4.7	3.8	39	43	30
PMS15A0-5R6M0T	5.6	4.2	34	38	28
PMS15A0-6R8M0T	6.8	4.6	31	36	26
PMS15A0-8R2M0T	8.2	7.2	28	32	25
PMS15A0-100M0T	10	8.6	26	29	24
PMS15A0-150M0T	15	11.5	18	20	18
PMS15A0-220M0T	22	15.8	16	18	14.2
PMS15A0-330M0T	33	20	14	16.7	12.3
-	-	-	-	-	-
PMS15A3-4R7M0T	4.7	3.3	40	44	31
PMS15A3-5R6M0T	5.6	3.9	35	40	29
PMS15A3-6R8M0T	6.8	4.2	32	37	27
PMS15A3-8R2M0T	8.2	5.74	29	33	26
PMS15A3-100M0T	10	7.0	27	30	25
PMS15A3-150M0T	15	7.5	21	25.5	22
PMS15A3-220M0T	22	13.86	19	22	17
PMS15A3-330M0T	33	22.2	16	19	14

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### Testing Conditions:

1. All test data is based on 25 °C ambient .
2. Operating temperature range - 55 °C to + 155 °C
3. I<sub>rms</sub> (A): DC current will cause an approximate  $\Delta T$  of 40 °C based on 25 °C ambient temperature
4. I<sub>sat</sub>(A): DC current will cause L<sub>0</sub> 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 12 months, the solderability of their terminals may be deteriorated.

### Reel & QTY information

Series	MPQ(Pcs)	Reel (W / P)
PMS1580	200	13" ( 32 / 24)
PMS15A0	150	13" ( 32 / 24)
PMS15A3	100	13" ( 32 / 24)