PMS Series Molding Power Inductor

Features

- Magnetic shielded structure.
- Ultra low DCR with super high DC current.
- Low loss and high efficiency with wider switchingfrequency operation.
- Operation temperature: -55 ~ +125℃ (include itself temperature rise)

Applications

- Server, Optical equipment.
- Data center related equipment.

Yint P/N Information

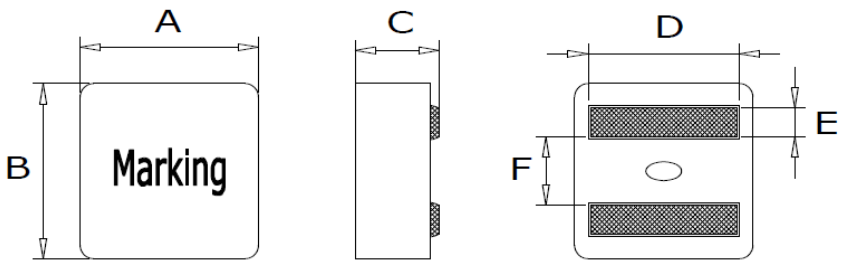
①	②	③	④	⑤	⑥	⑦
PM	S	1250	-2R2	M	0	T

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

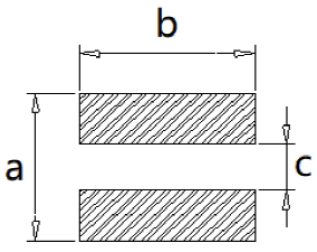
④	Nominal Inductance[μH]
Example	Nominal Value[μH]
R15	0.15μH
1R0	1.0μH
100M	10μH
⑤	Inductance Tolerance
M	±20%
N	±30%

Shape & Dimension information

< Dimension>



<Recommend Land Pattern>



Unit: mm

PMS Series Molding Power Inductor

Series	Dimensions						Land Pattern (Typ.)		
	A	B	C	D	E	F	a	b	c
PMS0420	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.3	1.7±0.3	3.4	3.8	1.4
PMS0430	4.1±0.25	4.1±0.25	2.8±0.2	3.4±0.3	0.88±0.3	1.7±0.3	3.4	3.8	1.4
PMS0520	5.5±0.2	5.3±0.2	1.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.5	4.7	2.0
PMS0530	5.5±0.2	5.3±0.2	2.9±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.5	4.7	2.0
PMS0550	5.5±0.2	5.3±0.2	4.8±0.2	4.3±0.3	1.1±0.3	2.3±0.3	4.5	4.7	2.0
PMS0630	6.6±0.2	6.4±0.2	see table	see table	1.4±0.3	2.6±0.3	5.6	5.6	2.5
PMS0650	6.6±0.2	6.4±0.2	4.8±0.2	see table	1.4±0.3	2.6±0.3	5.6	5.6	2.5
PMS0660	6.6±0.2	6.4±0.2	5.8±0.2	5.3±0.3	1.4±0.3	2.6±0.3	5.6	5.6	2.5
PMS0720	7.8±0.25	7.6±0.2	1.85±0.2	see table	1.75±0.3	3.15±0.3	7.4	7.2	2.8
PMS0730	7.8±0.25	7.6±0.2	2.9±0.2	see table	1.75±0.3	3.15±0.3	7.4	7.2	2.8
PMS0770	7.8±0.25	7.6±0.2	6.7±0.3	see table	1.75±0.3	3.15±0.3	7.8	6.7	2.8
PMS0880	8.9±0.3	8.5±0.3	7.7±0.3	see table	1.8±0.3	3.5±0.5	8.0	7.8	2.7
PMS10A0	11.9±0.3	11.0±0.3	9.7±0.3	see table	2.4±0.3	4.4±0.5	10.5	11.0	3.7
PMS1031	11.9±0.3	11.0±0.3	2.9±0.2	9.0±0.5	2.4±0.3	4.4±0.5	10.5	11.0	3.7
PMS1060	11.9±0.3	11.0±0.3	5.7±0.3	see table	2.4±0.3	4.5±0.5	10.5	11.0	3.7
PMS15A0	16.5±0.3	15.5±0.3	9.7±0.3	13.2±0.5	3.2±0.3	7.0±0.3	15.0	15.0	6.0
PMS15A3	16.5±0.3	15.5±0.3	12.7±0.3	13.2±0.5	3.2±0.3	7.0±0.3	15.0	15.0	6.0
PMS1580	16.5±0.3	15.5±0.3	7.7±0.3	13.2±0.5	3.2±0.3	7.0±0.5	15.0	15.0	6.0

Notes: C&D length special remark table

Series	D (mm)	C (mm)
PMS0630-□□□□1□	2.8±0.2	5.3±0.3
PMS0630-□□□□2□	2.9±0.2	5.0±0.3
PMS0630-R33M0T	2.8±0.2	5.55±0.3
PMS0630-1R0M0T	2.8±0.2	5.2±0.3
PMS0630-1R2M0T	2.8±0.2	5.15±0.3
PMS0630-1R5M0T	2.9±0.2	5.15±0.3
PMS0630-1R8M0T	2.9±0.2	5.1±0.3
PMS0630-2R2M0T	2.9±0.2	5.05±0.3
PMS0650-□□□□0□	5.3±0.3	-
PMS0650-□□□□1□	5.2±0.3	-
PMS0720-□□□□1□	6.6±0.3	-
PMS0720-□□□□0□	6.2±0.3	-
PMS0730-□□□□1□	6.6±0.3	-
PMS0730-□□□□0□	6.2±0.3	-
PMS0770-□□□□0□	6.7±0.3	-
PMS0770-□□□□1□	6.5±0.3	-
PMS0880-□□□□1□	7.2±0.3	-
PMS0880-□□□□0□	6.9±0.3	-
PMS10A0-□□□□1□	9.3±0.5	-
PMS10A0-□□□□0□	9.0±0.5	-

PMS Series Molding Power Inductor

Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	100 kHz, 0.1V	Max.	Max.	Typ.	20℃ rise	40℃ rise
PMS0420-R10M0T	0.1	2.42	33	38	13.5	18
PMS0420-R22M0T	0.22	4.6	18.8	19.5	13	16.8
PMS0420-R36M0T	0.36	6.3	15	17	11	14.5
PMS0420-R40M0T	0.4	7.73	13.5	15.5	10	14
PMS0420-R47M0T	0.47	8.58	13	14.5	9	12.5
PMS0420-R56M0T	0.56	9.3	12.6	14	8.5	12
PMS0420-R60M0T	0.6	9.52	12.3	13.7	8	11.7
PMS0420-R72M0T	0.72	11.6	10.6	12	7.6	10.5
PMS0420-1R0M0T	1	14.6	8.8	9.6	6.8	9.6
PMS0420-1R2M0T	1.2	17.9	7.8	9	6.6	9
PMS0420-1R5M0T	1.5	23.5	7.4	8	5.8	7.6
PMS0420-1R8M0T	1.8	28	7	7.5	5.2	7
PMS0420-2R2M0T	2.2	38.7	6	6.5	4.6	5.6
PMS0430-R47M0T	0.47	7.26	15	17	10	14
PMS0430-R90M0T	0.9	10.1	9	10	8.2	11.2
PMS0430-1R0M0T	1	10.1	9.2	9.8	8	11
PMS0430-1R2M0T	1.2	11.5	8.7	9.2	7.8	9.8
PMS0430-1R5M0T	1.5	13.2	7	8	7	9
PMS0430-2R2M0T	2.2	22.6	6.1	7	6	7.8
PMS0430-3R3M0T	3.3	28.6	5.3	6.2	5	6.6
PMS0520-R15M0T	0.15	4.6	27	30	13.9	18.8
PMS0520-R16M0T	0.16	4.6	27	30	13.9	18.8
PMS0520-R33M0T	0.33	7	24	26	10.5	14.4
PMS0520-R47M0T	0.47	8.05	20	22	10.1	14.1
PMS0520-R56M0T	0.56	9.54	16	19	9.9	13.9
PMS0520-R68M0T	0.68	10.2	14	16	9.6	13.4
PMS0520-R80M0T	0.8	11.8	13.5	15.5	9.4	13
PMS0520-R82M0T	0.82	12.7	13	15	8.5	12
PMS0520-1R0M0T	1	13.8	12.8	14.5	7.5	10.5
PMS0520-1R2M0T	1.2	16.3	12.2	14	6.8	9.4
PMS0520-1R5M0T	1.5	18.7	11.7	13.3	6.4	8.8
PMS0530-R15M0T	0.15	2.31	32.5	36	14.3	22.2
PMS0530-R16M0T	0.16	2.33	32	35	14.2	22.2
PMS0530-R33M0T	0.33	3.52	26	28	13.8	19.2
PMS0530-R47M0T	0.47	4.13	24	26	13.7	18.4
PMS0530-R56M0T	0.56	4.52	20.2	22.2	13.6	17.7
PMS0530-R60M0T	0.6	4.52	20	22	13.6	17.7
PMS0530-R80M0T	0.8	5.65	18	20	10.1	13.1
PMS0530-R82M0T	0.82	5.78	17.6	19.7	9.9	12.9
PMS0530-1R0M0T	1	7.6	14.3	16.5	9	12.2
PMS0530-1R2M0T	1.2	9.7	13.5	15	8.5	11
PMS0530-1R5M0T	1.5	11.2	12.5	14	8	10.5
PMS0530-1R8M0T	1.8	12.7	11.3	12.3	7.6	10.1

PMS Series Molding Power Inductor

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	100 kHz, 0.1V	Max.	Max.	Typ.	20℃ rise	40℃ rise
PMS0530-2R2M0T	2.2	14.5	9	10	7.2	9.7
PMS0530-3R3M0T	3.3	23.1	8.7	9.5	5.9	8.1
PMS0530-4R7M0T	4.7	36.3	7	8.2	4.3	5.9
PMS0550-5R6M0T	5.6	24.2	7.2	8.6	5.3	7.2
PMS0550-6R8M0T	6.8	28.6	6.6	7.8	4.8	6.4
PMS0550-8R2M0T	8.2	32.5	6.1	7.2	4.6	6.1
PMS0550-100M0T	10	43	5.4	6.5	3.8	5
PMS0630-R18M1T	0.18	1.75	36	40	24	32
PMS0630-R33M0T	0.33	2.5	28	32	20	25
PMS0630-R56M1T	0.56	3.31	25	29	17	22
PMS0630-R68M1T	0.68	5.17	21	25	15	20
PMS0630-1R0M0T	1	6.05	18	23	13	18
PMS0630-1R2M0T	1.2	7.4	16	22	12	16
PMS0630-1R5M0T	1.5	9.13	15.5	20	11	15
PMS0630-1R8M0T	1.8	10.2	13	18.2	10	14
PMS0630-2R2M0T	2.2	12.2	11	15.9	7	10
PMS0630-3R3M2T	3.3	20.8	9	12.2	6	8
PMS0630-4R5M2T	4.5	25.3	8	10	5	7
PMS0650-R82M0T	0.82	4.18	20	24	16	21
PMS0650-1R0M0T	1	4.52	18	23	15	20
PMS0650-1R2M0T	1.2	5.83	16	22	14	18
PMS0650-1R5M0T	1.5	6.3	14.5	19.5	13	17
PMS0650-1R8M1T	1.8	7.1	13.5	18.5	12	16
PMS0650-2R2M1T	2.2	8.5	12	16	10	13
PMS0650-3R3M1T	3.3	12.5	10	12.5	8.5	11
PMS0650-4R3M1T	4.3	16.2	8.5	11	7	9
PMS0650-4R7M1T	4.7	18.4	8	10.5	6.5	8.5
PMS0660-1R0M0T	1	4.4	19	24	16	21
PMS0660-1R5M0T	1.5	6.1	15	20	13.5	17.5
PMS0660-2R2M0T	2.2	8.1	12.5	16.5	11	14
PMS0660-3R3M0T	3.3	12.3	11	13	9	12
PMS0660-4R7M0T	4.7	14.4	9.3	10.5	8.5	11
PMS0660-5R6M0T	5.6	15.9	8.7	9.9	7.6	10
PMS0660-6R8M0T	6.8	20.8	8.1	9.2	7	9
PMS0720-R27M1T	0.27	3.5	32	35	16	21
PMS0720-R31M0T	0.31	4.8	31	34	14	20
PMS0720-R33M0T	0.33	4.8	31	34	13	19
PMS0720-R47M0T	0.47	6.2	25	28	12	17
PMS0720-R68M0T	0.68	9.2	23	25	10	13
PMS0720-1R0M0T	1	10.8	20	23	8	11
PMS0730-1R0M1T	1	5	28	30	16.1	21.8
PMS0730-1R5M1T	1.5	8.25	23.5	25	12	15.3
PMS0730-2R2M0T	2.2	13.7	17	19	10	13
PMS0730-2R7M0T	2.7	15.4	13.5	16	9.2	11.4
PMS0730-3R3M0T	3.3	18	13	15	8	10
PMS0730-4R7M0T	4.7	26.7	12.2	13.5	6.9	9

PMS Series Molding Power Inductor

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	100 kHz, 0.1V	Max.	Max.	Typ.	20℃ rise	40℃ rise
PMS0730-5R6M0T	5.6	33.2	11.5	12.5	5.3	7.3
PMS0730-6R8M0T	6.8	42.5	11	12	4.5	6.8
PMS0730-8R2M0T	8.2	48.73	9	10.2	3	5.9
PMS0770-3R3M0T	3.3	9.42	15.1	19.4	11.5	15.1
PMS0770-4R7M0T	4.7	13.5	14	15.5	10.5	13.6
PMS0770-6R8M1T	6.8	19.6	11	12.8	7	9.5
PMS0880-1R8M1T	1.8	4	24	28	18	24
PMS0880-2R2M1T	2.2	4.3	22	25	16	21.5
PMS0880-3R3M0T	3.3	7.3	20	23	13.5	18
PMS0880-4R7M0T	4.7	9.8	17	19	10.5	14.6
PMS0880-6R8M0T	6.8	14.3	12.5	14.5	8	11.3
PMS0880-100M0T	10	22.9	10	11	6.6	8.7
PMS10A0-3R3M1T	3.3	4.1	23.4	27.4	18.2	25
PMS10A0-4R7M1T	4.7	5.7	21.4	25.4	17.5	24
PMS10A0-5R6M1T	5.6	7.2	19.6	23.6	15.7	21.2
PMS10A0-6R8M0T	6.8	8.9	18.5	21.8	14	18.5
PMS10A0-8R2M0T	8.2	12.4	16.3	18.3	12.9	17.1
PMS10A0-100M0T	10	13.75	14.6	17.5	11.5	15.5
PMS10A0-150M0T	15	19.3	12.5	15.5	9.9	13.8
PMS1031-R28M0T	0.28	1.6	58	65	25.5	35
PMS1031-R56M0T	0.56	2.75	39	44	23	32
PMS1031-R82M0T	0.82	4.1	32	38	18	25
PMS1031-R90M0T	0.9	4.2	31	36	17	24
PMS1031-1R0M0T	1	4.95	30	35	16	23
PMS1031-1R5M0T	1.5	6.6	25	30	12	18
PMS1060-R68M0T	0.68	1.5	50	55	22.5	34
PMS1060-1R0M0T	1	2.32	44	48	20	28.5
PMS1060-1R2M0T	1.2	2.64	40	45	18	26.5
PMS1060-1R5M0T	1.5	3.3	36	40	16	24.5
PMS1060-2R2M0T	2.2	4.84	30	35	14	20
PMS1060-3R3M0T	3.3	7.7	25	28	11.4	16.8
PMS1060-4R7M0T	4.7	10.72	22	25	8.7	14
PMS15A0-4R7M0T	4.7	3.8	39	43	22	30
PMS15A0-5R6M0T	5.6	4.2	34	38	21	28
PMS15A0-6R8M0T	6.8	4.6	31	36	20	26
PMS15A0-8R2M0T	8.2	7.2	28	32	19	25
PMS15A3-4R7M0T	4.7	3.3	40	44	23	31
PMS15A3-5R6M0T	5.6	3.9	35	40	22	29
PMS15A3-6R8M0T	6.8	4.2	32	37	21	27
PMS15A3-8R2M0T	8.2	5.74	29	33	20	26
PMS15A3-100M0T	10	7	27	30	19	25
PMS15A3-150M0T	15	7.5	21	25.5	16	22
PMS15A3-220M0T	22	13.86	19	22	12	17
PMS15A3-330M0T	33	22.2	16	19	9	14
PMS1580-2R0M0T	2	2.21	52	57	29.5	40
PMS1580-2R2M0T	2.2	2.48	49	55	28	37

PMS Series Molding Power Inductor

Testing Conditions:

1.All test data is base 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 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.