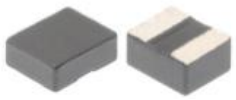
PMS Series Mini Molding Power Inductor

Features

- Metal material for large current and low loss.
- Low loss realized with low Rdc.
- Closed magnetic circuit design reduces leakage flux.
- Vinyl thermal spray, better surface compactness.



Applications

- Notebooks,tablets.
- Telecom Base Station,Industrial Control Board,Motor Control and etc.
- Meet AEC-Q200 standard.

Yint P/N Information

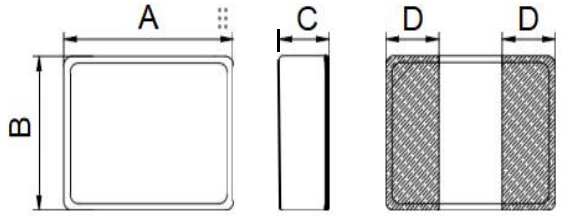
①	②	③	④	⑤	⑥	⑦
PM	S	201208	R15	M	0	T

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

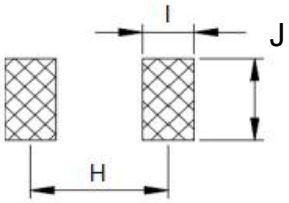
④	Nominal Inductance[μH]
Example	Nominal Value[μH]
R15	0.15μH
1R0	1.0 μH
100	10 μH
⑤	Inductance Tolerance
M	±20%

Shape & Dimension information

< Dimension>



<Recommend Land Pattern>



Type	A	B	C	D	H	I	J
PMS141208	1.4±0.2	1.2±0.2	0.8 Max	0.45±0.2	1.0 typ	0.5 typ	1.3 typ
PMS160808	1.6±0.2	0.8±0.2	0.8 Max	0.50±0.2	1.1 typ	0.6 typ	0.9 typ
PMS201208	2.0±0.2	1.2±0.2	0.8 Max	0.70±0.2	1.3 typ	0.8 typ	1.3 typ
PMS201610	2.0±0.2	1.6±0.2	1.0max	0.70±0.2	1.4 typ	0.8 typ	1.8 typ
PMS201612	2.0±0.2	1.6±0.2	1.2max	0.70±0.2	1.4 typ	0.8 typ	1.8 typ
PMS252010	2.5±0.2	2.0±0.2	1.0max	0.85±0.2	1.7 typ	0.9 typ	2.2 typ
PMS252012	2.5±0.2	2.0±0.2	1.2max	0.85±0.2	1.7 typ	0.9 typ	2.2 typ
PMS303020	3.0±0.2	3.0±0.2	2.00max	1.00±0.2	2.0 typ	1.1 typ	3.1 typ

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Type	A	B	C	D	H	I	J
PMS322510	3.2±0.2	2.5±0.2	1.0 Max	1.05±0.2	2.2 typ	1.1 typ	2.5 typ
PMS322512	3.2±0.2	2.5±0.2	1.2 Max	1.05±0.2	2.2 typ	1.1 typ	2.5 typ
PMS322520	3.2±0.2	2.5±0.2	2.0 Max	1.05±0.2	2.2 typ	1.1 typ	2.5 typ
PMS404012	4.1±0.2	4.1±0.2	1.2 Max	1.4±0.2	2.6 typ	1.5 typ	4.2 typ
-	-	-	-	-	-	-	-

Unit： mm

Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS141208-R24M0T	0.24	27	6.0	5.7	4.1	3.7
PMS141208-R33M0T	0.33	28	5.3	5.0	4.0	3.5
PMS141208-R47M0T	0.47	35	4.6	4.2	3.8	3.3
PMS141208-1R0M0T	1.0	87	3.0	2.5	3.0	2.5
-	-	-	-	-	-	-
PMS160808-R22M0T	0.22	40	5.5	5.0	3.4	3.0
PMS160808-R24M0T	0.24	41	5.3	4.8	3.3	2.9
PMS160808-R47M0T	0.47	100	4.1	3.7	2.6	2.3
PMS160808-R56M0T	0.56	110	4.0	3.5	2.2	1.9
PMS160808-R68M0T	0.68	130	3.3	3.0	2.1	1.9
PMS160808-1R0M0T	1.0	200	3.0	2.6	2.1	1.8
PMS160808-1R5M0T	1.5	285	2.4	2.0	1.7	1.4
PMS160808-2R2M0T	2.2	460	1.5	1.3	1.4	1.2
PMS160808-3R3M0T	3.3	600	1.4	1.2	1.0	0.9
PMS160808-4R7M0T	4.7	700	1.2	1.0	1.0	0.8
PMS160808-100M0T	10	1600	0.8	0.7	0.5	0.45
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

PMS Series Mini Molding Power Inductor

Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS201208-R11M0T	0.11	12	9.5	9.0	7.0	6.5
PMS201208-R15M0T	0.15	13	7.5	7.0	6.8	6.3
PMS201208-R24M0T	0.24	23	6.5	6.0	6.5	5.9
PMS201208-R33M0T	0.33	45	5.2	4.8	4.3	4.0
PMS201208-R47M0T	0.47	50	5.0	4.6	3.5	3.3
PMS201208-R68M0T	0.68	60	4.2	3.7	3.7	3.3
PMS201208-1R0M0T	1.0	70	4.0	3.5	3.3	2.9
PMS201208-1R5M0T	1.5	135	3.0	2.5	2.2	1.9
PMS201208-2R2M0T	2.2	185	2.6	2.3	2.2	1.8
PMS201208-3R3M0T	3.3	300	1.9	1.6	1.8	1.5
PMS201208-4R7M0T	4.7	325	1.6	1.4	1.7	1.5
-	-	-	-	-	-	-
PMS201610-R10M0T	0.1	12	9.0	8.5	8.5	8.0
PMS201610-R15M0T	0.15	14	8.7	8.1	7.6	7.1
PMS201610-R22M0T	0.22	18	8.2	7.6	7.0	6.4
PMS201610-R24M0T	0.24	19	8.0	7.5	6.8	6.3
PMS201610-R33M0T	0.33	22	7.0	6.6	5.7	5.4
PMS201610-R47M0T	0.47	25	6.3	5.6	5.5	5.1
PMS201610-R68M0T	0.68	32	5.2	4.8	4.6	4.4
PMS201610-1R0M0T	1.0	43	4.6	4.3	4.5	4.2
PMS201610-1R5M0T	1.5	100	3.3	3.0	2.6	2.3
PMS201610-2R2M0T	2.2	130	3.0	2.9	2.5	2.2
PMS201610-3R3M0T	3.3	170	2.4	2.0	1.7	1.6
PMS201610-4R7M0T	4.7	220	2.0	1.9	1.6	1.5
PMS201610-100M0T	10	580	1.4	1.1	1.0	0.7
-	-	-	-	-	-	-

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS201612-R10M0T	0.1	6	13	12	12	11
PMS201612-R15M0T	0.15	10	12	10.5	10	9.0
PMS201612-R24M0T	0.24	11	9.2	8.7	9.1	8.6
PMS201612-R33M0T	0.33	15	7.8	7.3	7.7	7.2
PMS201612-R47M0T	0.47	17	6.7	6.0	6.7	6.0
PMS201612-R68M0T	0.68	23	6.0	5.3	6.0	5.3
PMS201612-1R0M0T	1.0	36	5.0	4.5	5.0	4.5
PMS201612-1R5M0T	1.5	50	4.0	3.5	4.0	3.5
PMS201612-2R2M0T	2.2	90	3.1	2.7	3.3	2.9
PMS201612-3R3M0T	3.3	165	2.7	2.3	2.4	2.0
-	-	-	-	-	-	-
PMS252010-R22M0T	0.22	17	8.6	7.9	6.8	6.5
PMS252010-R24M0T	0.24	17.5	8.5	7.8	6.7	6.4
PMS252010-R33M0T	0.33	19	7.6	7.2	6.5	6.2
PMS252010-R47M0T	0.47	22	6.9	6.5	6.1	5.6
PMS252010-R68M0T	0.68	27	5.9	5.5	5.6	5.0
PMS252010-1R0M0T	1.0	30	5.3	4.8	4.5	4.1
PMS252010-1R5M0T	1.5	55	4.3	3.9	3.4	3.0
PMS252010-2R2M0T	2.2	70	3.3	3.0	2.4	2.1
PMS252010-3R3M0T	3.3	100	2.8	2.5	2.5	2.1
PMS252010-4R7M0T	4.7	180	2.6	2.0	2.0	1.6
PMS252010-6R8M0T	6.8	320	2.4	1.9	1.6	1.4
PMS252010-100M0T	10	561	1.55	1.4	1.05	0.95
PMS252010-220M0T	22	1300	1.1	0.9	0.85	0.6
-	-	-	-	-	-	-

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS252012-R10M0T	0.1	10	13.5	12.5	12	10.5
PMS252012-R15M0T	0.15	11	13.0	12.0	11.5	10.0
PMS252012-R22M0T	0.22	14	9.6	9.0	8.2	7.6
PMS252012-R24M0T	0.24	15	9.3	8.8	8.0	7.5
PMS252012-R33M0T	0.33	17	8.3	7.8	6.8	6.4
PMS252012-R47M0T	0.47	19	7.5	7.0	6.5	6.0
PMS252012-R68M0T	0.68	23	6.5	6.0	6.3	5.5
PMS252012-R82M0T	0.82	24	6.5	5.8	5.8	5.3
PMS252012-1R0M0T	1.0	42	5.6	5.0	4.0	3.6
PMS252012-1R2M0T	1.2	45	4.5	4.1	3.8	3.4
PMS252012-1R5M0T	1.5	50	4.5	4.1	3.7	3.2
PMS252012-2R2M0T	2.2	65	3.8	3.3	3.0	2.7
PMS252012-3R3M0T	3.3	97	3.0	2.7	2.3	1.8
PMS252012-4R7M0T	4.7	170	2.4	2.1	1.8	1.5
PMS252012-6R8M0T	6.8	270	2.0	1.7	1.6	1.4
PMS252012-100M0T	10	400	1.6	1.45	1.2	1.05
-	-	-	-	-	-	-
PMS303020-R15M0T	0.15	5.0	18.0	17.0	13.0	12.0
PMS303020-R33M0T	0.33	9.0	17.0	15.0	10.0	9.0
PMS303020-R50M0T	0.5	12.0	15.0	13.0	9.0	8.0
PMS303020-R68M0T	0.68	16.0	13.0	11.0	8.5	7.8
PMS303020-1R0M0T	1.0	20.0	8.0	7.5	6.5	6.0
PMS303020-1R5M0T	1.5	25.0	7.0	6.5	6.3	5.8
PMS303020-2R2M0T	2.2	45.0	6.0	5.5	4.7	4.3
PMS303020-3R3M0T	3.3	63.0	5.9	5.4	4.5	4.0
PMS303020-4R7M0T	4.7	73.0	4.8	4.0	4.2	3.8
PMS303020-6R8M0T	6.8	135	4.5	3.8	3.2	3.0
PMS303020-100M0T	10	160	3.8	3.3	2.5	2.2
PMS303020-150M0T	15	260	2.6	2.2	1.8	1.5

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS322510-R33M0T	0.33	15	8.3	7.8	8.3	7.8
PMS322510-R47M0T	0.47	22	8.3	7.6	6.4	5.9
PMS322510-R68M0T	0.68	28	7.5	7.0	6.2	5.7
PMS322510-1R0M0T	1.0	30	6.0	5.3	5.4	4.9
PMS322510-1R5M0T	1.5	42	5.0	4.4	4.0	3.6
PMS322510-2R2M0T	2.2	66	4.0	3.5	3.7	3.4
PMS322510-3R3M0T	3.3	120	3.7	3.3	2.7	2.3
PMS322510-4R7M0T	4.7	140	2.8	2.5	2.3	1.9
PMS322510-6R8M0T	6.8	320	2.4	2.0	1.9	1.6
PMS322510-100M0T	10	365	2.2	1.8	2.2	1.8
-	-	-	-	-	-	-
PMS322512-R10M0T	0.10	7.0	18.0	16.5	12.0	11.0
PMS322512-R22M0T	0.22	10	11.5	11.0	9.2	8.7
PMS322512-R24M0T	0.24	12	11.0	10.5	9.0	8.5
PMS322512-R33M0T	0.33	14	10.0	9.5	8.4	8.1
PMS322512-R47M0T	0.47	19	8.6	8.2	7.5	7.2
PMS322512-R68M0T	0.68	23	8.1	7.7	7.3	6.8
PMS322512-1R0M0T	1.0	30	6.6	5.8	5.3	4.8
PMS322512-1R5M0T	1.5	44	5.1	4.7	4.7	4.3
PMS322512-2R2M0T	2.2	70	4.6	4.2	3.6	3.0
PMS322512-3R3M0T	3.3	95	3.7	3.2	2.9	2.5
PMS322512-4R7M0T	4.7	135	2.9	2.6	2.3	2.0
PMS322512-6R8M0T	6.8	210	2.8	2.4	2.1	1.9
PMS322512-100M0T	10	230	2.3	1.9	2.0	1.8
-	-	-	-	-	-	-
PMS322520-R33M0T	0.33	9.0	15.5	14.0	9.5	9.0
PMS322520-R47M0T	0.47	10.5	15.0	13.0	9.5	8.5
PMS322520-R68M0T	0.68	14.5	13.0	11.0	9.0	8.0
PMS322520-1R0M0T	1.0	17.5	9.0	8.3	8.2	7.5
PMS322520-1R5M0T	1.5	25	6.8	6.0	6.5	6.0
PMS322520-2R2M0T	2.2	43	6.5	5.5	5.4	4.8
PMS322520-3R3M0T	3.3	60	4.5	3.5	4.5	4.0
PMS322520-4R7M0T	4.7	94	4.0	3.0	3.5	3.0
PMS322520-6R8M0T	6.8	125	3.8	2.9	2.8	2.3

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Specification

Yint P/N	Inductance	DC Resistance	Saturation Current		Heating Rating Current	
	L0 (μH)	DCR (mΩ)	Isat (A)		Irms (A)	
	1MHz, 1V	Max.	Typ.	Max.	Typ.	Max.
PMS404012-R47M0T	0.47	14.0	12.0	11.5	9.0	8.5
PMS404012-R68M0T	0.68	18.0	10.0	9.0	8.5	7.5
PMS404012-1R0M0T	1.0	25.0	11.0	10.0	6.3	5.5
PMS404012-1R5M0T	1.5	34.5	8.0	7.0	6.0	5.0
PMS404012-2R2M0T	2.2	55.0	6.5	6.0	5.0	4.5
PMS404012-3R3M0T	3.3	80.0	5.5	5.0	4.5	4.0
PMS404012-4R7M0T	4.7	110	5.0	4.5	3.5	3.0
PMS404012-5R6M0T	5.6	140	4.5	4.0	3.0	2.5
PMS404012-6R8M0T	6.8	160	3.8	3.5	2.8	2.3
PMS404012-100M0T	10	235	2.8	2.5	2.5	2.0
-	-	-	-	-	-	-

Testing Conditions:

- All test data is referenced to 25℃ ambient
- Test Condition：1MHz, 1.0Vrms
- Irms:DC current(A) that will cause an approximate △T of 40℃
- Isat: DC current(A) that will cause L0 to drop approximately 30%
- Operating temperature range－55℃ to～+155℃

PMS Series Mini Molding Power Inductor

Reel & QTY information

Series	MPQ(Pcs)	Tape Reel（W / P）mm
PMS141208	3000	7″ 8 / 4
PMS160808	3000	7″ 8 / 4
PMS201208	3000	7″ 8 / 4
PMS201610	3000	7″ 8 / 4
PMS201612	3000	7″ 8 / 4
PMS252010	3000	7″ 8 / 4
PMS252012	3000	7″ 8 / 4
PMS303020	3000	13″ 12 / 4
PMS322510	3000	13″ 12 / 4
PMS322512	3000	13″ 12 / 4
PMS322520	2000	13″ 12 / 4
PMS404012	3000	13″ 12 / 4