microgate
麦捷科技

SMD Power Inductor (MAPM Series)　贴片功率电感 MAPM 系列

FEATURES 特点

- Low profile, high current power supplies.
  小造型，大电流
- Low loss realized with low DCR.
  低直流电阻，低损耗
- Ultra low buzz noise.
  低噪音



APPLICATIONS 应用

- Ideally used in NB/Desktop/server/Graphic card, LCD TV/Projector, etc as DC-DC Converter.
  用于笔记本电脑、台式电脑、显卡、液晶电视、投影机、DC-DC 转换等。

Product Identification　产品标识

MAPM　0630　F-　100　M　**－LF
①　②　③　④　⑤　⑥　⑦

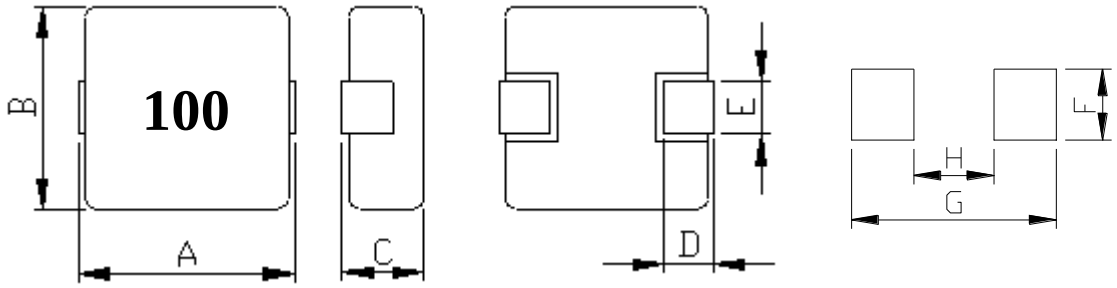
① Series name
② Product dimensions：（0630: 7.0*6.6*3.0 mm）
③ Special process code
④ Inductance Value (1R0:1.0uH;　680: 68uH;　101: 100uH)
⑤ Inductance Tolerance (K:10% ;　M:20% ;　N:30%)
⑥ Process code
⑦ Lead-Free

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Shapes And Dimensions 外型及尺寸示意图



Series	Dimensions(mm)							
	A	B	C(max.)	D	E	F	G	H
MAPM0320	3.4±0.3	3.2±0.3	2.0	0.70±0.3	1.2±0.2	1.45	4.1	1.9
MAPM0420	4.6±0.3	4.2±0.2	2.0	1.0±0.3	1.5±0.3	2.3	5.0	2.2
MAPM0530	4.95±0.35	4.7±0.3	3.0	1.2±0.5	2.0±0.5	2.5	7.0	2.2
MAPM0618	7.0±0.3	6.6±0.2	1.8	1.5±0.5	3.0±0.3	3.5	8.4	3.7
MAPM0624	7.0±0.3	6.6±0.2	2.4	1.5±0.5	3.0±0.3	3.5	8.4	3.7
MAPM0630	7.0±0.3	6.6±0.2	3.0	1.5±0.5	3.0±0.3	3.5	8.4	3.7
MAPM0640	7.0±0.3	6.6±0.2	4.0	1.5±0.5	3.0±0.3	3.5	8.4	3.7
MAPM1040	11.0±0.5	10.0±0.3	4.0	2.5±0.5	3.0±0.5	4.1	13.6	5.4
MAPM100720	11.0±0.5	7.2±0.3	2.0	2.5±0.5	3.0±0.5	4.1	13.6	5.4
MAPM100730	11.0±0.5	7.2±0.3	3.0	2.5±0.5	3.0±0.5	4.1	13.6	5.4
MAPM100740	11.0±0.5	7.2±0.3	4.0	2.5±0.5	3.0±0.5	4.1	13.6	5.4
MAPM100840	11.0±0.5	7.8±0.3	4.0	2.5±0.5	3.0±0.5	4.1	13.6	5.4
MAPM1365	13.5±0.5	12.6±0.3	6.5	2.5±0.5	3.8±0.5	4.5	15.5	8.0

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Electrical Characteristics 电气性能

MAPM0320F Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)	Irms (A)
	±20%	Max.	Typ.	Typ.	Typ.
MAPM0320F-R47M**-LF	0.47	23.0	19.7	9.00	7.00
MAPM0320F-R68M**-LF	0.68	29.0	25.5	7.00	5.50
MAPM0320F-1R0M**-LF	1.0	38.0	32.0	5.00	4.00
MAPM0320F-1R5M**-LF	1.5	50.0	42.0	4.00	3.80
MAPM0320F-2R2M**-LF	2.2	75.0	68.0	3.70	3.50
MAPM0320F-3R3M**-LF	3.3	145	125	3.50	3.00
MAPM0320F-4R7M**-LF	4.7	200	172	3.00	2.60

MAPM0420F Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)	Irms (A)
	±20%	Max.	Typ.	Typ.	Typ.
MAPM0420F-R22M**-LF	0.22	6.60	6.00	15.00	9.00
MAPM0420F-R33M**-LF	0.33	9.00	8.30	12.00	7.50
MAPM0420F-R47M**-LF	0.47	14.0	12.0	9.50	7.00
MAPM0420F-R68M**-LF	0.68	20.0	17.0	8.00	5.20
MAPM0420F-1R0M**-LF	1.0	27.0	22.0	7.00	4.50
MAPM0420F-1R5M**-LF	1.5	40.0	35.0	6.50	4.00
MAPM0420F-2R2M**-LF	2.2	52.0	44.0	4.50	3.40
MAPM0420F-3R3M**-LF	3.3	85.0	78.0	4.00	2.70
MAPM0420F-4R7M**-LF	4.7	125	110	3.20	2.10
MAPM0420F-6R8M**-LF	6.8	170	158	2.70	1.70
MAPM0420F-100M**-LF	10	200	180	2.00	1.50

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Electrical Characteristics 电气性能

MAPM0530F Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)		Irms (A)	
	±20%	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM0530F-R47M**-LF	0.47	5.90	5.00	12.00	14.00	12.70	14.00
MAPM0530F-R68M**-LF	0.68	8.50	7.00	10.50	12.50	11.00	12.50
MAPM0530F-1R0M**-LF	1.0	9.40	8.40	9.00	11.00	9.70	10.80
MAPM0530F-1R5M**-LF	1.5	17.0	14.8	8.00	9.50	7.20	8.20
MAPM0530F-2R2M**-LF	2.2	24.0	21.0	7.00	8.20	6.20	6.90
MAPM0530F-3R3M**-LF	3.3	36.0	29.7	6.60	7.30	5.20	5.80
MAPM0530F-4R7M**-LF	4.7	54.0	48.0	5.10	5.70	4.50	5.10
MAPM0530F-6R8M**-LF	6.8	84.0	72.0	3.60	4.20	3.20	3.70
MAPM0530F-100M**-LF	10	125	104	3.10	3.70	3.00	3.30

MAPM0618F Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)		Irms (A)	
	±20%	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM0618F-R15M**-LF	0.15	3.00	2.50	36.5	39.0	20.0	22.0
MAPM0618F-R22M**-LF	0.22	3.60	3.20	27.0	29.0	13.0	14.5
MAPM0618F-R33M**-LF	0.33	6.80	5.70	22.0	24.0	12.0	13.0
MAPM0618F-R47M**-LF	0.47	8.40	7.60	18.0	20.0	10.0	11.0
MAPM0618F-R68M**-LF	0.68	11.0	9.0	14.0	15.0	9.00	10.0
MAPM0618F-1R0M**-LF	1.0	19.5	17.0	10.0	12.0	8.20	8.80
MAPM0618F-1R5M**-LF	1.5	26.0	22.0	8.40	9.20	6.30	7.00
MAPM0618F-2R2M**-LF	2.2	35.0	29.0	7.20	8.00	4.60	5.00
MAPM0618F-4R7M**-LF	4.7	62.0	57.0	4.50	5.00	3.60	4.00
MAPM0618F-6R8M**-LF	6.8	100	90	4.00	4.50	2.70	3.00
MAPM0618F-100M**-LF	10	155	130	3.00	3.50	2.30	2.50

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Electrical Characteristics 电气性能

MAPM0624 Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)		Irms (A)	
	±20%	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM0624F-R22M**-LF	0.22	3.20	2.80	32.0	36.8	21.0	23.1
MAPM0624F-R33M**-LF	0.33	4.50	4.10	28.0	32.2	18.0	19.8
MAPM0624F-R47M**-LF	0.47	5.40	5.00	24.0	27.6	15.0	16.5
MAPM0624F-R68M**-LF	0.68	7.20	6.40	20.0	23.0	13.0	14.3
MAPM0624F-1R0M**-LF	1.0	13.5	12.0	16.0	18.4	10.0	11.0
MAPM0624F-1R5M**-LF	1.5	22.0	18.0	13.0	15.0	8.00	8.80
MAPM0624F-2R2M**-LF	2.2	28.0	24.0	11.0	12.7	7.00	7.70
MAPM0624F-3R3M**-LF	3.3	42.0	37.0	9.00	10.40	6.00	6.60
MAPM0624F-4R7M**-LF	4.7	60.0	50.0	7.50	8.60	5.00	5.50
MAPM0624F-6R8M**-LF	6.8	72.0	65.0	6.00	6.90	4.00	4.40
MAPM0624F-100M**-LF	10	105.0	94.0	4.80	5.52	3.20	3.52

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Electrical Characteristics 电气性能

MAPM0630 Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)		Irms (A)	
	±20%	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM0630D-R10M**-LF	0.10	0.85	0.70	48.0	60.0	35.0	40.0
MAPM0630D-R15M**-LF	0.15		0.85±7%	40.0	45.0	35.0	37.0
MAPM0630D-R22M**-LF	0.22		1.17±5%	32.0	35.0	33.0	36.0
MAPM0630F-R33M**-LF	0.33	2.55	2.30	28.0	31.0	23.0	25.0
MAPM0630F-R47M**-LF	0.47	4.10	3.60	23.0	25.0	16.0	18.0
MAPM0630F-R68M**-LF	0.68	5.50	4.60	17.0	18.5	15.5	16.5
MAPM0630F-1R0M**-LF	1.0	9.00	7.00	15.0	17.0	12.0	13.0
MAPM0630F-1R5M**-LF	1.5	10.5	9.80	13.0	14.5	11.0	12.0
MAPM0630F-2R2M**-LF	2.2	16.0	13.5	11.0	13.0	8.80	9.3
MAPM0630F-3R3M**-LF	3.3	22.0	18.5	10.0	11.0	7.00	8.00
MAPM0630F-4R7M**-LF	4.7	33.0	28.0	6.00	6.50	5.00	5.50
MAPM0630F-6R8M**-LF	6.8	55.0	50.0	5.50	6.00	4.00	4.50
MAPM0630F-8R2M**-LF	8.2	60.0	52.0	5.30	5.80	3.80	4.10
MAPM0630F-100M**-LF	10	66.0	59.0	5.00	5.50	3.70	4.00

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Electrical Characteristics 电气性能

MAPM0640 Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat (A)		Irms (A)	
	±20%	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM0640D-50NM**-LF	0.05	0.40	0.35	80.0	85.0	65.0	70.0
MAPM0640DHR10M**-LF	0.10		0.66±7%	/	72	/	42
MAPM0640D-R15M**-LF	0.15		0.66±7%	41.0	45.0	36.0	40.0
MAPM0640D-R22M**-LF	0.22		0.98±7%	35.0	38.0	34.0	37.0
MAPM0640D-R36M**-LF	0.36		1.40±7%	32.0	35.0	23.0	25.0
MAPM0640F-R47M**-LF	0.47	4.2	3.8	23.4	26.0	16.2	18.0
MAPM0640F-R68M**-LF	0.68	5.5	4.2	20.7	23.0	14.0	15.5
MAPM0640F-1R0M**-LF	1.0	8.5	7.4	15.3	17.0	10.80	12.00
MAPM0640F-1R5M**-LF	1.5	13.0	10.5	13.5	15.0	9.00	10.00
MAPM0640F-2R2M**-LF	2.2	18.0	13.0	12.60	14.00	7.65	8.50
MAPM0640F-3R3M**-LF	3.3	20.0	17.0	9.90	11.00	7.40	8.20
MAPM0640F-4R7M**-LF	4.7	28.0	23.0	7.20	8.00	5.90	6.50
MAPM0640F-6R8M**-LF	6.8	48.0	42.0	6.30	7.00	4.10	4.60
MAPM0640F-100M**-LF	10	75.0	68.0	5.40	6.00	3.80	4.20

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Electrical Characteristics 电气性能

MAPM1040 Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat	Irms
				(A)	(A)
	±20%	Max.	Typ.	Typ.	Typ.
MAPM1040D-R15M**-LF	0.15	0.65	0.50	75.0	40.0
MAPM1040D-R22M**-LF	0.22	1.00	0.80	60.0	35.0
MAPM1040D-R68M**-LF	0.68	1.80	1.40	27.0	25.0
MAPM1040D-1R0M**-LF	1.0	3.30	2.70	25.0	18.0
MAPM1040D-1R5M**-LF	1.5	4.60	3.70	23.0	16.0
MAPM1040F-R22M**-LF	0.22	1.40	1.10	55.0	30.0
MAPM1040F-R33M**-LF	0.33	1.40	1.10	50.0	30.0
MAPM1040F-R36M**-LF	0.36	1.40	1.10	50.0	30.0
MAPM1040F-R47M**-LF	0.47	2.50	2.20	35.0	26.0
MAPM1040F-R68M**-LF	0.68	3.00	2.00	32.0	23.0
MAPM1040F-1R0M**-LF	1.0	4.70	4.10	28.0	18.0
MAPM1040F-1R5M**-LF	1.5	5.80	4.60	27.0	16.0
MAPM1040F-2R2M**-LF	2.2	9.00	7.00	22.0	12.0
MAPM1040F-3R3M**-LF	3.3	12.5	10.8	16.0	10.0
MAPM1040F-4R7M**-LF	4.7	16.5	13.0	13.0	8.0
MAPM1040F-5R6M**-LF	5.6	25.0	18.2	12.0	8.0
MAPM1040F-6R8M**-LF	6.8	28.0	23.5	9.00	6.50
MAPM1040F-8R2M**-LF	8.2	30.0	25.0	9.00	5.50
MAPM1040F-100M**-LF	10	36.5	31.0	9.00	5.00
MAPM1040F-150M**-LF	15	48.0	45.0	7.00	4.00
MAPM1040F-220M**-LF	22	72.0	60.0	5.00	3.50
MAPM1040F-330M**-LF	33	110	103	4.50	3.20
MAPM1040F-470M**-LF	47	155	148	3.00	3.00

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Electrical Characteristics 电气性能

MAPM1007 Series

Part No.	Inductance	DCR(mΩ)		Isat (A)		Irms (A)	
	(uH)	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM100720D-R15L**-LF	0.15±15%		1.14±5%	65.0	70.0	31.0	33.0
MAPM100730D-R15M**-LF	0.15±20%	0.72	0.65	75.0	80.0	40.0	43.0
MAPM100730D-R22M**-LF	0.22±20%	0.76	0.70	60.0	65.0	38.0	40.0
MAPM100740D-R15L**-LF	0.15±15%	0.50	0.43	75.0	78.0	43.0	48.0
MAPM100740D-R22L**-LF	0.22±15%		0.6±5%	67.0	73.0	40.0	43.0
MAPM100744D-R10M**-LF	0.10±20%	0.42	0.38	100	105	55.0	58.0

MAPM1008 Series

Part No.	Inductance	DCR(mΩ)		Isat (A)		Irms (A)	
	(uH)	Max.	Typ.	Max.	Typ.	Max.	Typ.
MAPM100840D-R18K**-LF	0.18±10%		0.55±10%	40.0	44.0	38.0	40.0

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Electrical Characteristics 电气性能

MAPM1365 Series

Part No.	Inductance (uH)	DCR(mΩ)		Isat	Irms
				(A)	(A)
	±20%	Max.	Typ.	Typ.	Typ.
MAPM1365D-R56M**-LF	0.56	1.70	1.20	60.0	30.0
MAPM1365D-R68M**-LF	0.68	1.80	1.30	54.0	28.0
MAPM1365D-R82M**-LF	0.82	2.00	1.60	50.0	25.0
MAPM1365D-1R0M**-LF	1.0	2.50	1.70	47.0	25.0
MAPM1365D-1R5M**-LF	1.5	3.50	2.50	42.0	22.0
MAPM1365D-2R2M**-LF	2.2	4.50	3.50	38.0	18.0
MAPM1365D-3R3M**-LF	3.3	8.20	5.50	28.0	13.0
MAPM1365F-4R7M**-LF	4.7	14.00	11.00	21.0	14.0
MAPM1365F-5R6M**-LF	5.6	15.00	12.00	18.0	11.0
MAPM1365F-6R8M**-LF	6.8	13.00	10.00	16.5	10.0
MAPM1365F-8R2M**-LF	8.2	25.00	17.00	16.0	10.0
MAPM1365F-100M**-LF	10	25.00	16.00	15.5	10.0
MAPM1365F-150M**-LF	15	38.00	31.00	9.00	6.00
MAPM1365F-220M**-LF	22	48.0	42.0	7.50	5.00
MAPM1365F-330M**-LF	33	66.0	61.0	5.50	4.00
MAPM1365F-470M**-LF	47	90.0	80.0	5.00	3.50
MAPM1365F-560M**-LF	56	110.0	90.0	4.00	3.00
MAPM1365F-680M**-LF	68	123.0	92.0	3.00	2.50

1. Test frequency at 100KHz,0.1 Vrms.
2. Isat: DC current at which the inductance drops 30% from its value without current.
3. Irms: Current that causes a 40℃ temperature rise from 25℃ ambient.

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