

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。

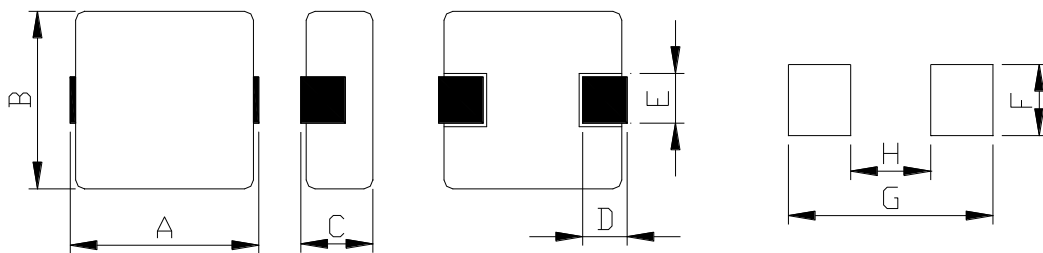
Product Identification 产品标识

MAPM 0630 F - 3R3 M : LF

① ② ③ ④ ⑤ ⑥

- ① Series name 系列名称
- ② Product dimensions 产品尺寸：(0630: 6.6*6.6*3.0 mm)
- ③ Structure code 产品结构代号
- ④ Inductance Value 电感量：(3R3:3.3uH 100: 10uH; 101:100uH)
- ⑤ Inductance Tolerance 电感量公差：(M:20% ; N:30%)
- ⑥ Lead free products 无铅产品

Shapes And Dimensions 外型及尺寸示意图



| Series | Dimensions(mm) | | | | | | | |
|-----------|----------------|---------|---------|----------|---------|-----|------|------|
| | A(max.) | B(max.) | C(max.) | D | E | F | G | H |
| MAPM0420F | 4.8 | 4.5 | 2.1 | 0.76±0.5 | 1.5±0.3 | 2.3 | 5.0 | 1.16 |
| MAPM0630F | 7.8 | 7.0 | 3.1 | 1.27±0.5 | 3.0±0.3 | 3.5 | 8.4 | 3.7 |
| MAPM1040F | 11.5 | 11.0 | 4.0 | 2.2±0.5 | 3.0±0.5 | 4.0 | 13.6 | 6.0 |
| MAPM1335F | 14.5 | 13.0 | 3.5 | 2.3±0.5 | 3.5±0.5 | 4.5 | 14.5 | 8.0 |
| MAPM1350F | 14.5 | 13.0 | 5.0 | 2.3±0.5 | 3.5±0.5 | 4.5 | 14.5 | 8.0 |

Electrical Characteristics 电气性能

MAPM0420F Series

| Part Number | L±20% (uH) | DCR max. (mΩ) | Isat (A) | Irms (A) |
|-------------------|---------------|-------------------|-------------|-------------|
| MAPM0420F-R47M-LF | 0.47 | 16 | 7.0 | 7.0 |
| MAPM0420F-1R0M-LF | 1.0 | 27 | 5.0 | 4.5 |
| MAPM0420F-1R5M-LF | 1.5 | 48 | 4.0 | 3.5 |
| MAPM0420F-2R2M-LF | 2.2 | 70 | 3.5 | 3.2 |
| MAPM0420F-4R7M-LF | 4.7 | 110 | 2.5 | 1.7 |
| MAPM0420F-6R8M-LF | 6.8 | 180 | 2.1 | 2.0 |
| MAPM0420F-100M-LF | 10 | 285 | 1.8 | 1.6 |

MAPM0630F Series

| Part Number | L±20% (uH) | DCR max. (mΩ) | Isat (A) | Irms (A) |
|-------------------|---------------|-------------------|-------------|-------------|
| MAPM0630F-R47M-LF | 0.47 | 4.2 | 26 | 17 |
| MAPM0630F-R68M-LF | 0.68 | 5.5 | 25 | 15 |
| MAPM0630F-R82M-LF | 0.82 | 8.0 | 24 | 12 |
| MAPM0630F-1R0M-LF | 1.0 | 10 | 22 | 10 |
| MAPM0630F-1R5M-LF | 1.5 | 15 | 17 | 9.0 |
| MAPM0630F-2R2M-LF | 2.2 | 20 | 14 | 8.0 |
| MAPM0630F-3R3M-LF | 3.3 | 30 | 13 | 6.0 |
| MAPM0630F-4R7M-LF | 4.7 | 40 | 10 | 5.0 |
| MAPM0630F-6R8M-LF | 6.8 | 60 | 8 | 4.5 |
| MAPM0630F-8R2M-LF | 6.8 | 85 | 7 | 4 |
| MAPM0630F-100M-LF | 10 | 110 | 6 | 3.0 |

MAPM1040F Series

| Part Number | L±20% (uH) | DCR max. (mΩ) | Isat (A) | Irms (A) |
|-------------------|---------------|-------------------|-------------|-------------|
| MAPM1040F-1R0M-LF | 1.0 | 4.5 | 31 | 17 |
| MAPM1040F-1R5M-LF | 1.5 | 6 | 27 | 15 |
| MAPM1040F-2R2M-LF | 2.2 | 9 | 25 | 12 |
| MAPM1040F-3R3M-LF | 3.3 | 12 | 18 | 10 |
| MAPM1040F-4R7M-LF | 4.7 | 17 | 17 | 9.5 |
| MAPM1040F-5R6M-LF | 5.6 | 20 | 16 | 8.5 |
| MAPM1040F-8R2M-LF | 8.2 | 24 | 13 | 8.0 |
| MAPM1040F-100M-LF | 10 | 37 | 12 | 6.8 |
| MAPM1040F-150M-LF | 15 | 90 | 7 | 3.5 |
| MAPM1040F-220M-LF | 22 | 120 | 3 | 2.0 |

Electrical Characteristics 电气性能

MAPM1335F Series

| Part Number | L±20% (uH) | DCR max. (mΩ) | Isat (A) | Irms (A) |
|-------------------|---------------|-------------------|-------------|-------------|
| MAPM1335F-R47M-LF | 0.47 | 2.0 | 55 | 32 |
| MAPM1335F-R68M-LF | 0.68 | 2.5 | 49 | 28 |
| MAPM1335F-1R0M-LF | 1.0 | 3.5 | 40 | 23 |
| MAPM1335F-1R5M-LF | 1.5 | 5.5 | 35 | 19 |
| MAPM1335F-2R2M-LF | 2.2 | 8 | 29 | 16 |
| MAPM1335F-3R3M-LF | 3.3 | 12 | 27 | 12 |
| MAPM1335F-4R7M-LF | 4.7 | 15 | 24 | 10 |
| MAPM1335F-6R8M-LF | 6.8 | 22 | 18 | 9 |
| MAPM1335F-8R2M-LF | 8.2 | 28 | 16 | 8.5 |
| MAPM1335F-100M-LF | 10 | 34 | 14 | 7 |
| MAPM1335F-220M-LF | 22 | 90 | 4.5 | 3 |

MAPM1350F Series

| Part Number | L±20% (uH) | DCR max. (mΩ) | Isat (A) | Irms (A) |
|-------------------|---------------|-------------------|-------------|-------------|
| MAPM1350F-R47M-LF | 0.47 | 1.3 | 65 | 38 |
| MAPM1350F-R82M-LF | 0.82 | 2.3 | 53 | 31 |
| MAPM1350F-1R0M-LF | 1.0 | 2.5 | 50 | 29 |
| MAPM1350F-1R5M-LF | 1.5 | 4.1 | 48 | 23 |
| MAPM1350F-2R2M-LF | 2.2 | 5.5 | 32 | 20 |
| MAPM1350F-3R3M-LF | 3.3 | 9.2 | 30 | 15 |
| MAPM1350F-4R7M-LF | 4.7 | 15 | 27 | 12 |
| MAPM1350F-5R6M-LF | 5.6 | 17 | 22 | 11.5 |
| MAPM1350F-6R8M-LF | 6.8 | 19 | 21 | 11 |
| MAPM1350F-8R2M-LF | 8.2 | 23 | 18 | 9.5 |
| MAPM1350F-100M-LF | 10 | 26 | 16 | 9 |

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°C temperature rise from 25°C ambient.

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