

## 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。

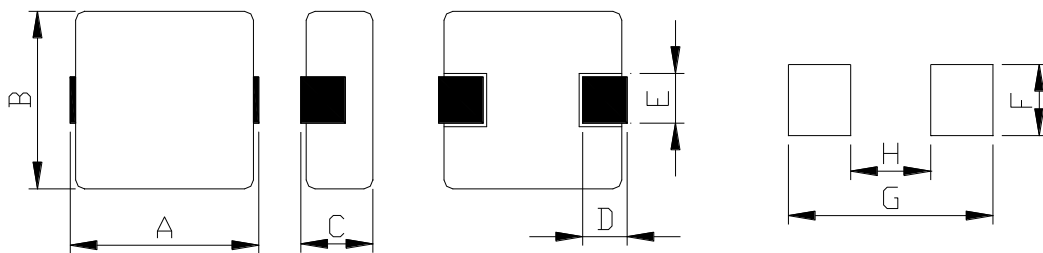
## Product Identification 产品标识

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%<br>(uH) | DCR max.<br>( mΩ) | Isat<br>(A) | Irms<br>(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%<br>(uH) | DCR max.<br>( mΩ) | Isat<br>(A) | Irms<br>(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%<br>(uH) | DCR max.<br>( mΩ) | Isat<br>(A) | Irms<br>(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%<br>(uH) | DCR max.<br>( mΩ) | Isat<br>(A) | Irms<br>(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%<br>(uH) | DCR max.<br>( mΩ) | Isat<br>(A) | Irms<br>(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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