

### ■ Features:

- High current , low DCR , high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- Motor control
- DC/DC converters in distributed power systems
- AEC-Q200 Grade 1 qualified (-40°C to +125°C ambient)

### ■ Applications:

- Shielded construction reduces EMI
- Low profilis, high current power supplies
- Soft saturation.
- DC/DC converter for Field programmable gate Array
- Battery powered device

### ■ Parts code:

**FLMPF**

Type

**0703**

Dimension

**1R2**

Inductance code

**M**

Tolerance: M : ± 20%

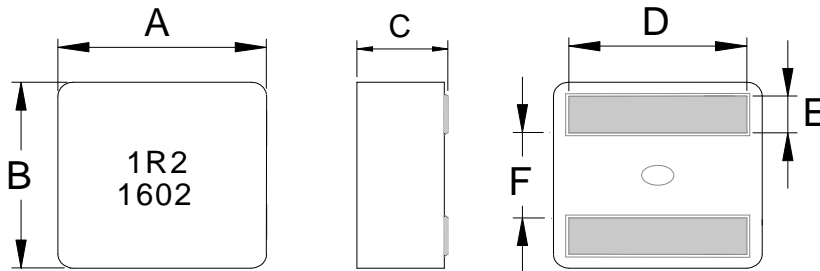
N : ± 30%

**D**

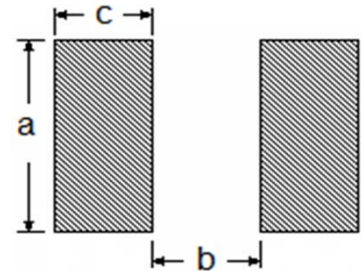
Date Code

■ PS: Marking: Black.2R2 and 1602(16 YY, 02 WW, follow production date)

### ■ Outline Dimension:



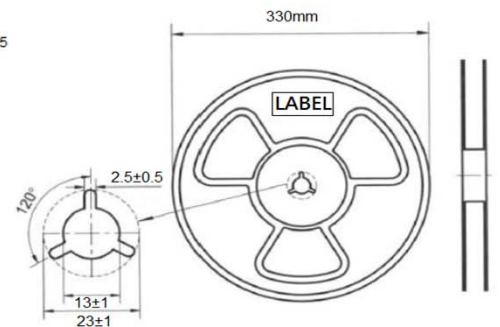
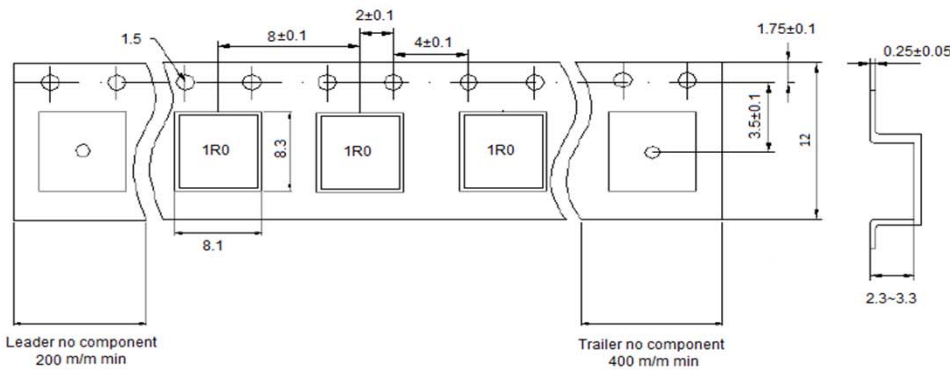
### ■ Recommended Land Pattern:



Dimensions in mm

| TYPE       | A        | B       | C        | D              | E        | F         |
|------------|----------|---------|----------|----------------|----------|-----------|
| FLMPF 0702 | 7.8±0.25 | 7.6±0.2 | 1.85±0.2 | See Spec table | 1.75±0.2 | 3.15±0.25 |
| FLMPF 0703 | 7.8±0.25 | 7.6±0.2 | 2.9±0.2  |                | 1.75±0.2 | 3.15±0.25 |

| a       | b       | c       |
|---------|---------|---------|
| 7.2 Typ | 2.8 Typ | 2.2 Typ |
| 7.2 Typ | 2.8 Typ | 2.2 Typ |

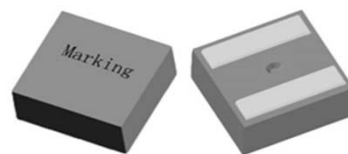


### ■ Package: Q'TY / Reel

FLMPF-0702--2K/pcs

FLMPF-0703--1.5K/pcs

## Hi-Current Power Inductor FLMPF 0702



7.8x7.6x1.85

### ■ Specifications

## FLMPF 0702

| Flic No.         | L      | DCR (mΩ) | Isat (A) |      | Irms (A)  |           | D(mm) |
|------------------|--------|----------|----------|------|-----------|-----------|-------|
|                  | ( uH ) | Max      | Typ.     | Max. | 20°C Rise | 40°C Rise | ±0.3  |
| FLMPF 0702- R33M | 0.33   | 4.8      | 34.0     | 31.0 | 13.0      | 19.0      | 6.20  |
| FLMPF 0702- R47M | 0.47   | 6.2      | 28.0     | 25.0 | 12.0      | 17.0      | 6.20  |
| FLMPF 0702- R68M | 0.68   | 9.2      | 25.0     | 23.0 | 10.0      | 13.0      | 6.20  |
| FLMPF 0702- 1R0M | 1.00   | 10.8     | 23.0     | 20.0 | 8.0       | 11.0      | 6.20  |

■ Notes: Tolerance: M (± 20%) ), N (± 30%)

■ Test Frequency: 100 KHz / 0.1V

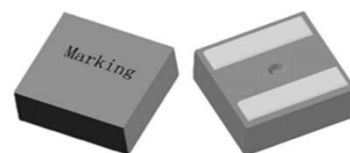
Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -40°C ~ +125°C

Storage Temp: -40°C ~ +125°C

## Hi-Current Power Inductor FLMPF 0703



7.8x7.6x2.9

### ■ Specifications

## FLMPF 0703

| Flic No.         | L      | DCR (mΩ) | Isat (A) |      | Irms (A)  |           | D(mm) |
|------------------|--------|----------|----------|------|-----------|-----------|-------|
|                  | ( uH ) | Max      | Typ.     | Max. | 20°C Rise | 40°C Rise | ±0.3  |
| FLMPF 0703- 1R0M | 1.00   | 5.0      | 30.0     | 28.0 | 16.1      | 21.8      | 6.60  |
| FLMPF 0703- 1R5M | 1.50   | 8.25     | 25.0     | 23.5 | 12.0      | 15.3      | 6.60  |
| FLMPF 0703- 2R2M | 2.20   | 13.7     | 19.0     | 17.0 | 10.0      | 13.0      | 6.20  |
| FLMPF 0703- 2R7M | 2.70   | 15.4     | 16.0     | 13.5 | 9.2       | 11.4      | 6.20  |

■ Notes: Tolerance: M (± 20%) ), N (± 30%)

■ Test Frequency: 100 KHz / 0.1V

Isat: Based on Inductance decrease 30%

Irms: Based on Temperature increase 40°C

Operating temperature range: -40°C ~ +125°C

Storage Temp: -40°C ~ +125°C

**Flic**

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