

■ 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

0502

Dimension

1R2

Inductance code

M

Tolerance: M : ± 20%

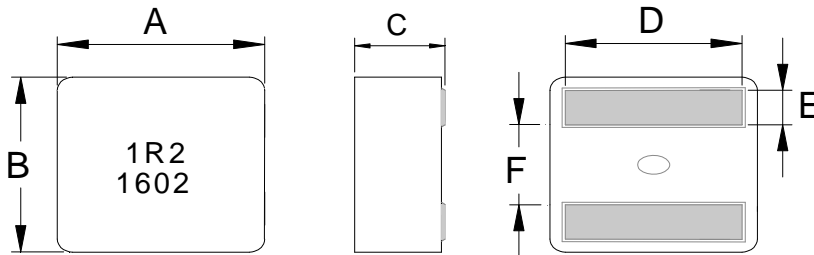
N : ± 30%

D

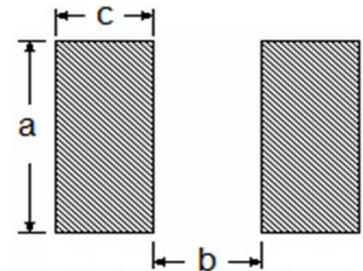
Date Code

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

■ Outline Dimension:



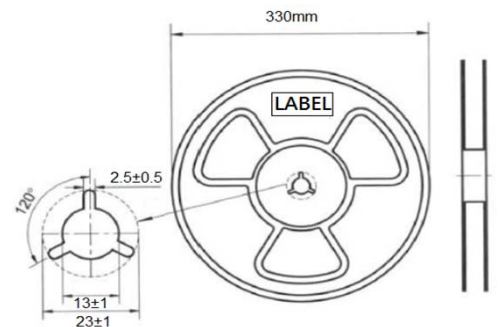
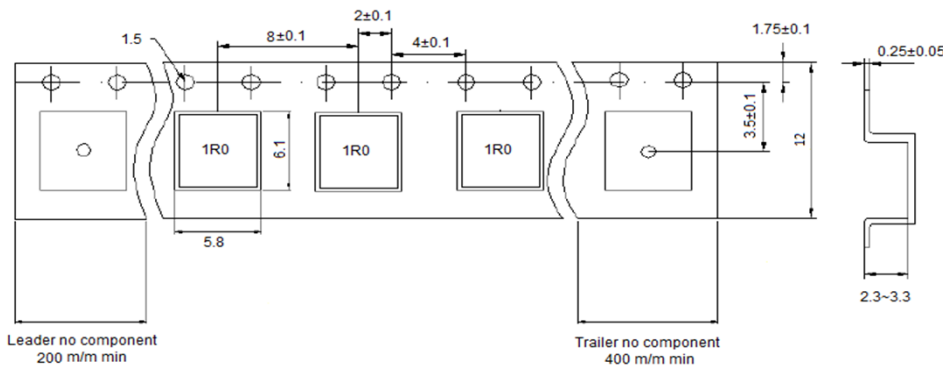
■ Recommended Land Pattern:



Dimensions in mm

TYPE	A	B	C	D	E	F
FLMPF 5020	5.5±0.2	5.3±0.2	1.9±0.2	4.3±0.3	1.1±0.2	2.3±0.25
FLMPF 5030	5.5±0.2	5.3±0.2	2.9±0.2	4.3±0.3	1.1±0.2	2.3±0.25

a	b	c
4.7 Typ	2.0 Typ	1.25 Typ
4.7 Typ	2.0 Typ	1.25 Typ

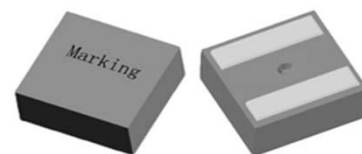


■ Package: Q'TY / Reel

FLMPF-0502--3K/pcs

FLMPF-0503--2K/pcs

Hi-Current Power Inductor FLMPF 0502



5.5x5.3x1.9

■ Specifications

FLMPF 0502

Flic No.	L	DCR (mΩ)	Isat (A)		Irms (A)	
	(μH)	Max	Typ.	Max.	20°C Rise	40°C Rise
FLMPF 0502- R15M	0.15	4.6	30.0	27.0	13.9	18.8
FLMPF 0502- R33M	0.33	7.0	26.0	24.0	10.5	14.4
FLMPF 0502- R47M	0.47	8.05	22.0	20.0	10.1	14.1
FLMPF 0502- R56M	0.56	9.54	19.0	16.0	9.9	13.9
FLMPF 0502- R68M	0.68	10.2	16.0	14.0	9.6	13.4
FLMPF 0502- R80M	0.80	11.8	15.5	13.5	9.4	13.0
FLMPF 0502- R82M	0.82	12.7	15.0	13.0	8.5	12.0
FLMPF 0502- 1R0M	1.00	13.8	14.5	12.8	7.5	10.5
FLMPF 0502- 1R2M	1.20	16.3	14.0	12.2	6.8	9.4
FLMPF 0502- 1R5M	1.50	18.7	13.3	11.7	6.4	8.8

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

■ Test Frequency: 100 KHz / 0.1V

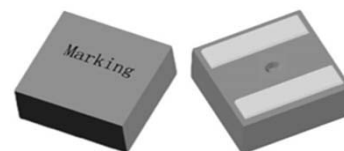
Isat: Based on Inductance decrease 30%

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 0503



5.5x5.3x2.9

■ Specifications

FLMPF 0503

Flic No.	L	DCR (mΩ)	Isat (A)		Irms (A)	
	(uH)	Max	Typ.	Max.	20°C Rise	40°C Rise
FLMPF 0503- R15M	0.15	2.31	36.0	32.5	14.3	22.2
FLMPF 0503- R16M	0.16	2.33	35.0	32.0	14.2	22.2
FLMPF 0503- R33M	0.33	3.52	28.0	26.0	13.8	19.2
FLMPF 0503- R56M	0.56	4.52	22.2	20.2	13.6	17.7
FLMPF 0503- R60M	0.60	4.52	22.0	20.0	13.6	17.7
FLMPF 0503- R80M	0.80	5.65	20.0	18.0	10.1	13.1
FLMPF 0503- R82M	0.82	5.78	19.7	17.6	9.9	12.9
FLMPF 0503- 1R0M	1.00	7.60	16.5	14.3	9.0	12.2
FLMPF 0503- 1R2M	1.20	9.70	15.0	13.5	8.5	11.0
FLMPF 0503- 1R5M	1.50	11.20	14.0	12.5	8.0	10.5
FLMPF 0503- 1R8M	1.80	12.70	12.3	11.3	7.6	10.1
FLMPF 0503- 2R2M	2.20	14.50	10.0	9.0	7.2	9.7
FLMPF 0503- 3R3M	3.30	23.10	9.5	8.7	5.9	8.1
FLMPF 0503- 4R7M	4.70	36.30	8.2	7.0	4.3	5.9

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

■ Test Frequency: 100 KHz / 0.1V

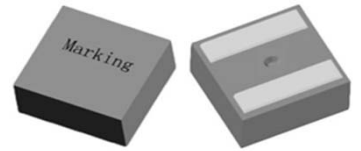
Isat: Based on Inductance decrease 30%

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 0503



5.5x5.3x2.9

PERFORMANCE CURVES

