



■ Features:

- Lowest DCR / μH , in this package size
- Handles high transient current spikes without saturation
- Ultra low noise, due to composite construction

■ Applications:

- Notebook/Desktop/Server applications
- Low profilis, high current power supplies
- DC/DC converter for Field programmable gate Array

■ Parts code:

FLIHP 1003

Type

1R0

Inductance code

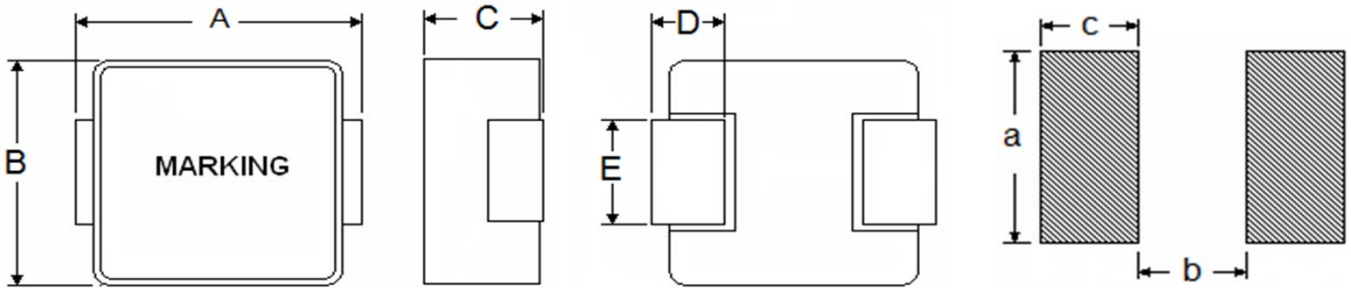
M

Tolerance: M : $\pm 20\%$

N : $\pm 30\%$

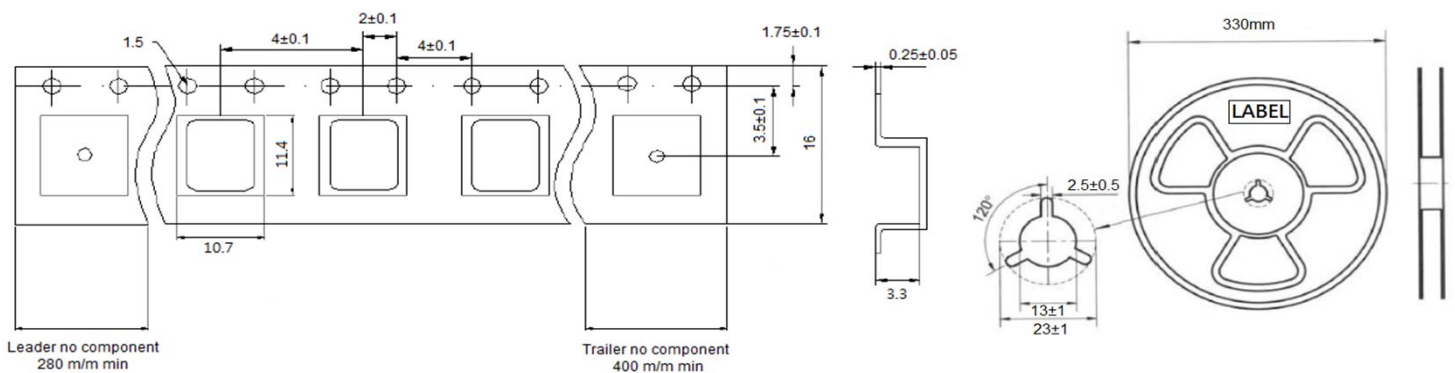
■ Outline Dimension:

■ Recommended Land Pattern:



Dimensions in mm

| TYPE | A | B | C | D | E | a | b | c |
|------------|---------|----------------|---------|---------------|---------------|--------|---------|---------|
| FLIHP 1003 | 11.6max | 10.0 \pm 0.3 | 3.0 max | 2.5 \pm 0.5 | 3.0 \pm 0.5 | 3.1Typ | 6.4 Typ | 2.6 Typ |



■ Package: Q'TY / Reel
FLIHP-1003--1K/pcs

Hi-Current Power Inductor FLIHP 1003



11.0X10.0X3.0

■ Specifications

| FLIHP 1003 | | | | |
|------------------|--------|----------|--------------------|---------------------|
| Flic No. | L | DCR (mΩ) | Stauration Current | Heat Rating Current |
| | (uH) | Max | Isat (A) Typ. | Irms (A) Typ. |
| FLIHP 1003- R22M | 0.22 | 1.2 | 50.00 | 30.00 |
| FLIHP 1003- R33M | 0.33 | 1.6 | 32.00 | 23.00 |
| FLIHP 1003- R36M | 0.36 | 1.6 | 28.00 | 23.00 |
| FLIHP 1003- R47M | 0.47 | 2.5 | 26.00 | 23.00 |
| FLIHP 1003- R56M | 0.56 | 3.0 | 24.00 | 22.00 |
| FLIHP 1003- R68M | 0.68 | 3.4 | 23.00 | 21.00 |
| FLIHP 1003- 1R0M | 1.0 | 6.0 | 21.00 | 15.00 |
| FLIHP 1003- 1R5M | 1.5 | 7.5 | 18.00 | 12.00 |
| FLIHP 1003- 2R2M | 2.2 | 9.0 | 14.00 | 11.00 |
| FLIHP 1003- 3R3M | 3.3 | 16.0 | 12.00 | 9.00 |
| FLIHP 1003- 4R7M | 4.7 | 25.0 | 10.00 | 7.00 |
| FLIHP 1003- 5R6M | 5.6 | 30.0 | 10.00 | 6.00 |
| FLIHP 1003- 6R8M | 6.8 | 35.0 | 75.00 | 5.50 |
| FLIHP 1003- 8R2M | 8.2 | 45.0 | 7.00 | 5.00 |
| FLIHP 1003- 100M | 10 | 55.0 | 6.50 | 4.50 |
| FLIHP 1003- 150M | 15 | 65.0 | 5.00 | 4.00 |
| FLIHP 1003- 220M | 22 | 99.0 | 4.00 | 3.00 |

■ Notes: Tolerance: M ($\pm 20\%$), N ($\pm 30\%$)

■ Test Ferquency: 100 KHz / 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