

Drum Core Surface Mount Unshielded Power Inductors

◆ Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.

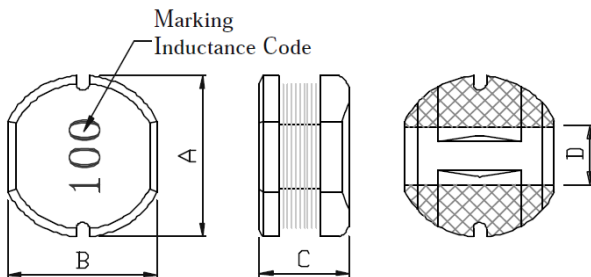


◆ Applications

Power supply for VCR,OA equipment ,LCD television set notebook, DC to DC converters, DC to AC inverters etc.



◆ Shape & Dimensions



◆ Lead Free Part Numbering

CMLF 0403 - 100 M T T

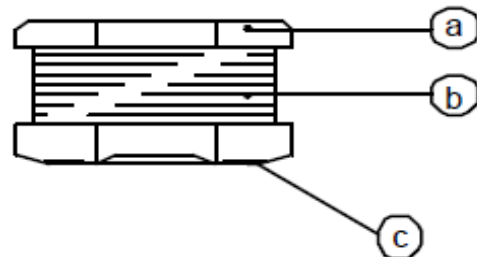
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: A X C
- (3) Inductance: 2R2=2.2 μ H ;
100=10 μ H; 101=100 μ H
- (4) Inductance Tolerance: K= \pm 10%, M= \pm 20%
- (5) Company Code
- (6) Packaging : packed in embossed carrier tape

| Series | A (mm) | B (mm) | C (mm) | D (mm) |
|----------|---------------|---------------|---------------|----------|
| CMLF0403 | 4.5 \pm 0.3 | 4.0 \pm 0.3 | 3.2 \pm 0.3 | 1.2 Typ. |

◆ Material

| Item | Material |
|-------------|-----------------------|
| a. Core | Ferrite DR Core |
| b. Wire | Enamelled Copper wire |
| c. Terminal | Ag+Sn+SnPb |



◆ Specification

| Part Number | Inductance (μH) | DCR (Ω) max. | IDC (A) max. |
|-------------------------|-----------------|--------------|--------------|
| CMLF0403 Series: | | | |
| CMLF0403-1R0MTT | 1.00±20% | 0.033 | 3.80 |
| CMLF0403-1R8MTT | 1.80±20% | 0.042 | 2.91 |
| CMLF0403-2R2MTT | 2.20±20% | 0.047 | 2.60 |
| CMLF0403-3R3MTT | 3.30±20% | 0.058 | 2.15 |
| CMLF0403-3R9MTT | 3.90±20% | 0.076 | 1.98 |
| CMLF0403-4R7MTT | 4.70±20% | 0.094 | 1.70 |
| CMLF0403-5R6MTT | 5.60±20% | 0.101 | 1.60 |
| CMLF0403-6R8MTT | 6.80±20% | 0.117 | 1.41 |
| CMLF0403-8R2MTT | 8.20±20% | 0.132 | 1.26 |
| CMLF0403-100MTT | 10.0±20% | 0.182 | 1.15 |
| CMLF0403-120MTT | 12.0±20% | 0.210 | 1.05 |
| CMLF0403-150MTT | 15.0±20% | 0.235 | 0.92 |
| CMLF0403-220MTT | 22.0±20% | 0.378 | 0.76 |
| CMLF0403-330MTT | 33.0±20% | 0.540 | 0.64 |
| CMLF0403-390MTT | 39.0±20% | 0.587 | 0.59 |
| CMLF0403-470MTT | 47.0±20% | 0.844 | 0.54 |
| CMLF0403-560MTT | 56.0±20% | 0.937 | 0.50 |
| CMLF0403-680MTT | 68.0±20% | 1.117 | 0.46 |
| CMLF0403-820MTT | 82.0±20% | 1.345 | 0.45 |
| CMLF0403-101KTT | 100.0±10% | 1.520 | 0.44 |
| CMLF0403-121KTT | 120.0±10% | 1.800 | 0.43 |
| CMLF0403-151KTT | 150.0±10% | 2.000 | 0.42 |
| CMLF0403-181KTT | 180.0±10% | 3.200 | 0.38 |
| CMLF0403-221KTT | 220.0±10% | 3.400 | 0.36 |
| CMLF0403-271KTT | 270.0±10% | 3.900 | 0.34 |
| CMLF0403-331KTT | 330.0±10% | 5.300 | 0.28 |
| CMLF0403-391KTT | 390.0±10% | 5.900 | 0.24 |
| CMLF0403-471KTT | 470.0±10% | 6.800 | 0.21 |
| CMLF0403-561KTT | 560.0±10% | 8.500 | 0.20 |
| CMLF0403-681KTT | 680.0±10% | 10.000 | 0.18 |
| CMLF0403-821KTT | 820.0±10% | 13.400 | 0.15 |

◆ **Note**

- (1) Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.
- (2) Inductance test condition: CMLF0504: $1.0\mu\text{H}\sim 8.2\text{H}$: $7.96\text{MTTHz}/0.5\text{V}$,
 $10.0\mu\text{H}\sim 82.0\mu\text{H}$: $2.52\text{MTTHz}/0.5\text{V}$, More than $100.0\mu\text{H}$ at $1.0\text{KTTHz}/1.0\text{V}$.
- (3) DC Resistance is measured by HP4338B Milliohms Meter or equivalent.
- (4) Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK) at $1.0\text{KTTHz}/1.0\text{V}$.
- (5) Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C , whichever is smaller. (Reference ambient temperature 20°C).
- (6) Operating temperature $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
- (7) All test data is referenced to 25°C ambient.

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