

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 0504 - 100 M T T

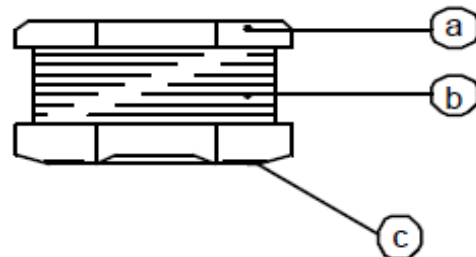
(1) (2) (3) (4) (5) (6)

- (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) |
|----------|---------------|---------------|---------------|----------|
| CMLF0504 | 5.8 \pm 0.3 | 5.2 \pm 0.3 | 4.5 \pm 0.3 | 1.5 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. |
|-------------------------|-----------------|--------------|--------------|
| CMLF0504 Series: | | | |
| CMLF0504-1R0MTT | 1.00±20% | 0.015 | 6.10 |
| CMLF0504-1R2MTT | 1.20±20% | 0.020 | 5.70 |
| CMLF0504-1R5MTT | 1.50±20% | 0.025 | 5.10 |
| CMLF0504-1R8MTT | 1.80±20% | 0.030 | 4.90 |
| CMLF0504-2R2MTT | 2.20±20% | 0.035 | 4.80 |
| CMLF0504-3R3MTT | 3.30±20% | 0.045 | 4.20 |
| CMLF0504-4R7MTT | 4.70±20% | 0.060 | 3.30 |
| CMLF0504-5R6MTT | 5.60±20% | 0.070 | 3.10 |
| CMLF0504-6R8MTT | 6.80±20% | 0.080 | 3.00 |
| CMLF0504-8R2MTT | 8.20±20% | 0.090 | 2.70 |
| CMLF0504-100KTT | 10.0±10% | 0.100 | 2.50 |
| CMLF0504-120KTT | 12.0±10% | 0.120 | 2.30 |
| CMLF0504-150KTT | 15.0±10% | 0.140 | 2.20 |
| CMLF0504-180KTT | 18.0±10% | 0.150 | 1.83 |
| CMLF0504-220KTT | 22.0±10% | 0.180 | 1.40 |
| CMLF0504-270KTT | 27.0±10% | 0.200 | 1.37 |
| CMLF0504-330KTT | 33.0±10% | 0.230 | 1.28 |
| CMLF0504-390KTT | 39.0±10% | 0.320 | 0.80 |
| CMLF0504-470KTT | 47.0±10% | 0.370 | 0.72 |
| CMLF0504-560KTT | 56.0±10% | 0.420 | 0.68 |
| CMLF0504-680KTT | 68.0±10% | 0.460 | 0.61 |
| CMLF0504-820KTT | 82.0±10% | 0.600 | 0.58 |
| CMLF0504-101KTT | 100.0±10% | 0.700 | 0.52 |
| CMLF0504-121KTT | 120.0±10% | 0.930 | 0.48 |
| CMLF0504-151KTT | 150.0±10% | 1.100 | 0.40 |
| CMLF0504-181KTT | 180.0±10% | 1.380 | 0.38 |
| CMLF0504-221KTT | 220.0±10% | 1.570 | 0.35 |
| CMLF0504-271KTT | 270.0±10% | 1.650 | 0.32 |
| CMLF0504-331KTT | 330.0±10% | 1.700 | 0.28 |
| CMLF0504-391KTT | 390.0±10% | 1.800 | 0.26 |
| CMLF0504-471KTT | 470.0±10% | 2.300 | 0.23 |
| CMLF0504-561KTT | 560.0±10% | 2.500 | 0.20 |
| CMLF0504-681KTT | 680.0±10% | 3.000 | 0.19 |
| CMLF0504-821KTT | 820.0±10% | 4.500 | 0.16 |
| CMLF0504-102KTT | 1000.0±10% | 4.800 | 0.14 |

◆ **Note**

- (1) Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.
- (2) Inductance test condition: CMLF0504: 1.0 μ H~8.2H:7.96MTTHz/0.5V,
10.0 μ H~82.0 μ H:2.52MTTHz/0.5V, More than 100.0 μ H at 1.0KTTHz/1.0V.
- (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 1.0KTTHz/1.0V.
- (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°C ~ +125°C.
- (7) All test data is referenced to 25°C ambient.

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