

## 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**

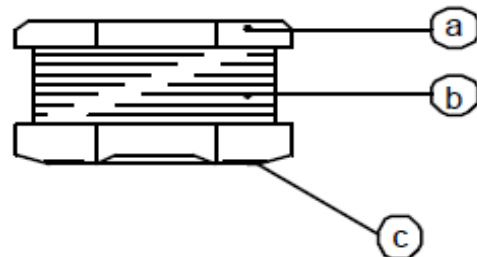
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: A X C
- (3) Inductance: 2R2=2.2 $\mu$ H ;  
100=10 $\mu$ H; 101=100 $\mu$ 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. |
|-------------------------|-----------------|--------------|--------------|
| <b>CMLF0504 Series:</b> |                 |              |              |
| 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 $\mu$ H~8.2H:7.96MTTHz/0.5V,  
10.0 $\mu$ H~82.0 $\mu$ H:2.52MTTHz/0.5V, More than 100.0 $\mu$ 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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