

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.

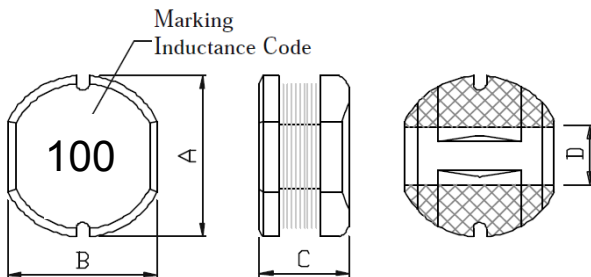


◆ Applications

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

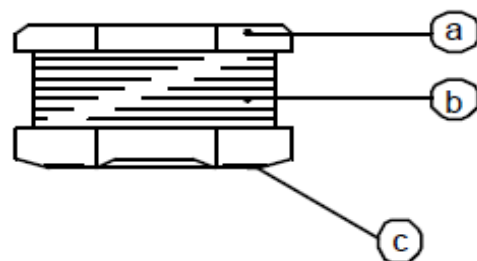
CMLF 0302 - 100 M T T
(1) (2) (3) (4) (5) (6)

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

| Series | A (mm) | B (mm) | C (mm) | D (mm) |
|----------|---------|---------|---------|---------|
| CMLF0302 | 3.5±0.3 | 3.0±0.3 | 2.1±0.3 | 1.0 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. |
|-------------------------|-----------------|--------------|--------------|
| CMLF0302 Series: | | | |
| CMLF0302-1R0MTT | 1.0±20% | 0.035 | 3.34 |
| CMLF0302-1R2MTT | 1.2±20% | 0.040 | 2.50 |
| CMLF0302-2R2MTT | 2.2±20% | 0.120 | 2.00 |
| CMLF0302-3R3MTT | 3.3±20% | 0.108 | 1.55 |
| CMLF0302-4R7MTT | 4.7±20% | 0.172 | 1.50 |
| CMLF0302-5R6MTT | 5.6±20% | 0.192 | 1.35 |
| CMLF0302-6R8MTT | 6.8±20% | 0.219 | 1.20 |
| CMLF0302-8R2MTT | 8.2±20% | 0.247 | 1.15 |
| CMLF0302-100MTT | 10±20% | 0.286 | 1.05 |
| CMLF0302-150MTT | 15±20% | 0.468 | 0.95 |
| CMLF0302-220MTT | 22±20% | 0.611 | 0.90 |
| CMLF0302-330MTT | 33±20% | 0.962 | 0.85 |
| CMLF0302-470MTT | 47±20% | 1.500 | 0.80 |
| CMLF0302-680MTT | 68±20% | 2.000 | 0.78 |
| CMLF0302-820MTT | 82±20% | 2.500 | 0.76 |
| CMLF0302-101MTT | 100±20% | 3.000 | 0.75 |
| CMLF0302-151MTT | 150±20% | 4.000 | 0.73 |
| CMLF0302-221MTT | 220±20% | 5.500 | 0.70 |
| CMLF0302-331MTT | 330±20% | 7.000 | 0.70 |
| CMLF0302-471MTT | 470±20% | 12.000 | 0.69 |

◆ **Note**

- (1) Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.
- (2) Inductance test condition: CMLF0302: 1.0μH~8.2H:7.96MTTHz/0.5V,
10.0μH~82.0μH:2.52MTTHz/0.5V, More than 100.0μH 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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