

## 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.

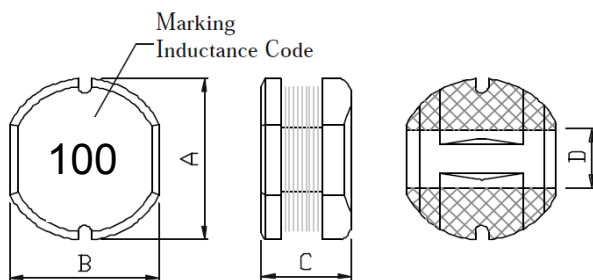


### ◆ Applications

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**

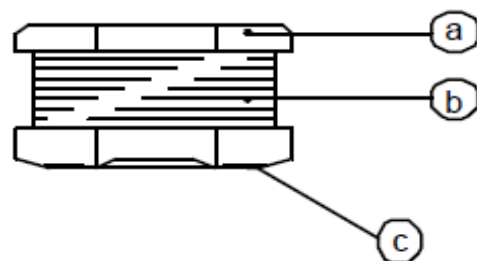
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: A X C
- (3) Inductance: 2R2=2.2 $\mu$ 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)
CMLF0302	3.5 $\pm$ 0.3	3.0 $\pm$ 0.3	2.1 $\pm$ 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 ( $\mu$ H)	DCR ( $\Omega$ ) max.	IDC (A) max.
<b>CMLF0302 Series:</b>			
CMLF0302-1R0MTT	1.0 $\pm$ 20%	0.035	3.34
CMLF0302-1R2MTT	1.2 $\pm$ 20%	0.040	2.50
CMLF0302-2R2MTT	2.2 $\pm$ 20%	0.120	2.00
CMLF0302-3R3MTT	3.3 $\pm$ 20%	0.108	1.55
CMLF0302-4R7MTT	4.7 $\pm$ 20%	0.172	1.50
CMLF0302-5R6MTT	5.6 $\pm$ 20%	0.192	1.35
CMLF0302-6R8MTT	6.8 $\pm$ 20%	0.219	1.20
CMLF0302-8R2MTT	8.2 $\pm$ 20%	0.247	1.15
CMLF0302-100MTT	10 $\pm$ 20%	0.286	1.05
CMLF0302-150MTT	15 $\pm$ 20%	0.468	0.95
CMLF0302-220MTT	22 $\pm$ 20%	0.611	0.90
CMLF0302-330MTT	33 $\pm$ 20%	0.962	0.85
CMLF0302-470MTT	47 $\pm$ 20%	1.500	0.80
CMLF0302-680MTT	68 $\pm$ 20%	2.000	0.78
CMLF0302-820MTT	82 $\pm$ 20%	2.500	0.76
CMLF0302-101MTT	100 $\pm$ 20%	3.000	0.75
CMLF0302-151MTT	150 $\pm$ 20%	4.000	0.73
CMLF0302-221MTT	220 $\pm$ 20%	5.500	0.70
CMLF0302-331MTT	330 $\pm$ 20%	7.000	0.70
CMLF0302-471MTT	470 $\pm$ 20%	12.000	0.69

◆ **Note**

- (1) Inductance is measured by LCR-meter 4284A/4286A (HP) or equivalent.
- (2) Inductance test condition: CMLF0302: 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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