

## 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**

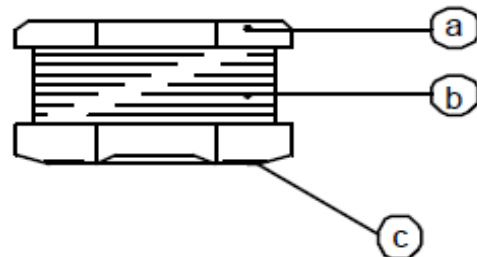
(1) (2) (3) (4) (5) (6)

- (1) Series Type
- (2) Dimension: A X C
- (3) Inductance: 2R2=2.2 $\mu$ 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)
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.
<b>CMLF0403 Series:</b>			
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  $40^{\circ}\text{C}$ , whichever is smaller. (Reference ambient temperature  $20^{\circ}\text{C}$ ).
- (6) Operating temperature  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ .
- (7) All test data is referenced to  $25^{\circ}\text{C}$  ambient.

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