cybermax
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CMLF0302 Series

Drum Core Surface Mount Unshielded Power Inductors

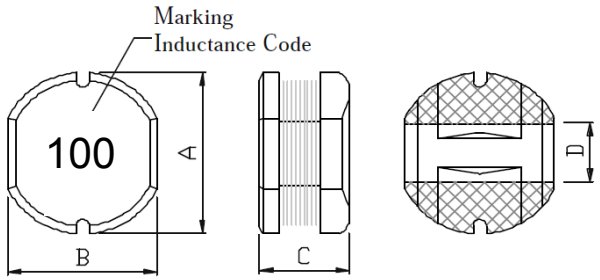
◆ Features

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

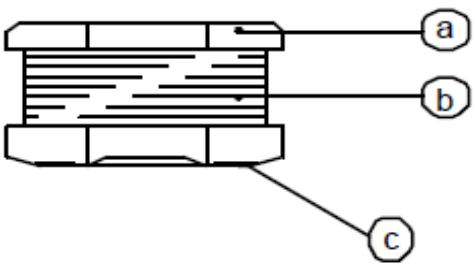
CMLF 0302 - 100 M T T
(1) (2) (3) (4) (5) (6)

(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



CMLF0302 Series

◆ 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℃ ~ +125℃.
(7) All test data is referenced to 25℃ ambient.

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