SMD Type Shielded Power Inductors

◆ Features

1. Magnetically shielded Version.
2. High inductance /High Power Inductor.
3. The products contain no lead and also support lead-free soldering.

◆ Applications

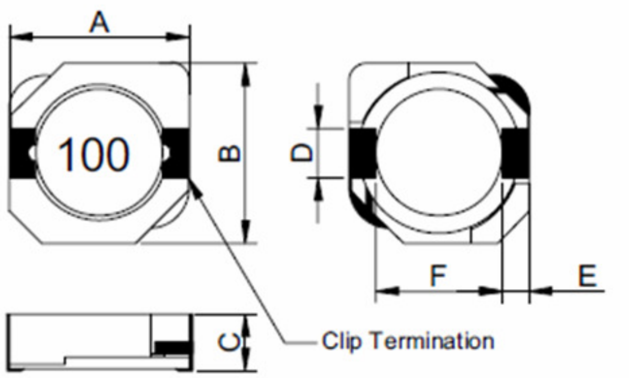
Excellent as VTR, OA equipment, LCD television sets, notebook PC, portable communication equipments, DC/DC converters, etc.

◆ Lead Free Part Numbering

CMLD	10D40	S	100	M	T	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series Type
(2) Dimension：A X C
(3) Material Code
(4) Inductance：2R2=2.2µH；
100=10µH；101=100µH
(5) Inductance Tolerance：M=±20%, N=±30%
(6) Company Code
(7) Packaging：packed in embossed carrier

◆ Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
CMLD10D30	10.5 max.	10.3 max.	3.0max.	3.0±0.1	1.2±0.15	7.7±0.3	-
CMLD10D40	10.5 max.	10.3 max.	4.0max.	3.0±0.1	1.2±0.15	7.7±0.3	-
CMLD10D50	10.5 max.	10.3 max.	5.0max.	3.0±0.1	1.2±0.15	7.7±0.3	-

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
CMLD10D30 Series				
CMLD10D30S-R80NTT	0.8±30%	0.1V/100K	5.7	11.20
CMLD10D30S-1R5NTT	1.5±30%	0.1V/100K	11	8.00
CMLD10D30S-2R2MTT	2.2±20%	0.1V/100K	16.9	6.70
CMLD10D30S-3R3MTT	3.3±20%	0.1V/100K	21	5.56
CMLD10D30S-4R7MTT	4.7±20%	0.1V/100K	30	4.65
CMLD10D30S-6R8MTT	6.8±20%	0.1V/100K	35	3.84
CMLD10D30S-8R2MTT	8.2±20%	0.1V/100K	50	3.54
CMLD10D30S-100MTT	10±20%	0.1V/100K	59	3.18
CMLD10D30S-150MTT	15±20%	0.1V/100K	91	2.60
CMLD10D30S-220MTT	22±20%	0.1V/100K	143	2.16
CMLD10D30S-330MTT	33±20%	0.1V/100K	202	1.74
CMLD10D30S-470MTT	47±20%	0.1V/100K	299	1.43
CMLD10D30S-560MTT	56±20%	0.1V/100K	325	1.36
CMLD10D30S-680MTT	68±20%	0.1V/100K	429	1.22
CMLD10D30S-820MTT	82±20%	0.1V/100K	494	1.14
CMLD10D30S-101MTT	100±20%	0.1V/100K	683	1.02
CMLD10D30S-121MTT	120±20%	0.1V/100K	754	0.89
CMLD10D30S-151MTT	150±20%	0.1V/100K	871	0.84

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
CMLD10D40 Series				
CMLD10D40S-1R5NTT	1.50±30%	0.1V/100K	8.1	10.00
CMLD10D40S-2R2MTT	2.20±20%	0.1V/100K	10.5	7.50
CMLD10D40S-3R3MTT	3.30±20%	0.1V/100K	13	6.00
CMLD10D40S-4R7MTT	4.70±20%	0.1V/100K	22	5.50
CMLD10D40S-5R2MTT	5.20±20%	0.1V/100K	25	5.40
CMLD10D40S-6R8MTT	6.80±20%	0.1V/100K	27	4.80
CMLD10D40S-100MTT	10.0±20%	0.1V/100K	39	4.40
CMLD10D40S-150MTT	15.0±20%	0.1V/100K	55	3.60
CMLD10D40S-220MTT	22.0±20%	0.1V/100K	73	2.90
CMLD10D40S-330MTT	33.0±20%	0.1V/100K	93	2.30
CMLD10D40S-470MTT	47.0±20%	0.1V/100K	128	2.10
CMLD10D40S-680MTT	68.0±20%	0.1V/100K	213	1.50
CMLD10D40S-101MTT	100.0±20%	0.1V/100K	304	1.35
CMLD10D40S-151MTT	150.0±20%	0.1V/100K	506	1.15
CMLD10D40S-221MTT	220.0±20%	0.1V/100K	756	0.92
CMLD10D40S-331MTT	330.0±20%	0.1V/100K	1090	0.70

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
CMLD10D50 Series				
CMLD10D50S-R80NTT	0.8±30%	0.1V/100K	4.3	9.50
CMLD10D50S-1R5NTT	1.5±30%	0.1V/100K	5.8	8.60
CMLD10D50S-2R2MTT	2.2±20%	0.1V/100K	7.2	7.80
CMLD10D50S-3R3MTT	3.3±20%	0.1V/100K	10.4	7.10
CMLD10D50S-4R7MTT	4.7±20%	0.1V/100K	12.3	6.50
CMLD10D50S-6R8MTT	6.8±20%	0.1V/100K	18	5.70
CMLD10D50S-8R2MTT	8.2±20%	0.1V/100K	20	5.30
CMLD10D50S-100MTT	10±20%	0.1V/100K	26	4.80
CMLD10D50S-120MTT	12±20%	0.1V/100K	33	4.60
CMLD10D50S-150MTT	15±20%	0.1V/100K	41	4.30
CMLD10D50S-180MTT	18±20%	0.1V/100K	46	4.00
CMLD10D50S-220MTT	22±20%	0.1V/100K	61	3.60
CMLD10D50S-270MTT	27±20%	0.1V/100K	69	3.20
CMLD10D50S-330MTT	33±20%	0.1V/100K	84	3.00
CMLD10D50S-390MTT	39±20%	0.1V/100K	106	2.55
CMLD10D50S-470MTT	47±20%	0.1V/100K	130	2.20
CMLD10D50S-560MTT	56±20%	0.1V/100K	149	1.90
CMLD10D50S-680MTT	68±20%	0.1V/100K	201	1.60
CMLD10D50S-820MTT	82±20%	0.1V/100K	227	1.45
CMLD10D50S-101MTT	100±20%	0.1V/100K	253	1.35
CMLD10D50S-121MTT	120±20%	0.1V/100K	303	1.18
CMLD10D50S-151MTT	150±20%	0.1V/100K	370	1.10

◆ Specification

Part Number	Inductance (μH)	Test Frequency (Hz)	DCR (mΩ) max.	IDC (A) max.
CMLD10D50 Series				
CMLD10D50S-181MTT	180±20%	0.1V/100K	419	1.00
CMLD10D50S-221MTT	220±20%	0.1V/100K	500	0.94
CMLD10D50S-271MTT	270±20%	0.1V/100K	672	0.80
CMLD10D50S-331MTT	330±20%	0.1V/100K	812	0.73
CMLD10D50S-391MTT	390±20%	0.1V/100K	953	0.70
CMLD10D50S-471MTT	470±20%	0.1V/100K	1289	0.54
CMLD10D50S-561MTT	560±20%	0.1V/100K	1430	0.52
CMLD10D50S-681MTT	680±20%	0.1V/100K	1599	0.51
CMLD10D50S-821MTT	820±20%	0.1V/100K	1768	0.48
CMLD10D50S-102MTT	1000±20%	0.1V/100K	1989	0.42

◆ Note

1. Inductance measured by LCR Meter HP 4284A or equivalent.
2. DCR measured by Milliohm meter HP 4338B or equivalent.
3. Rated current is measured by LCR-meter 3260B (WK) & DC Bias 3265B(WK).
4. Maximum allowable DC current is that which causes a 25% inductance reduction from the initial value, or coil temperature to rise by 40℃, whichever is smaller. (Reference ambient temperature 25℃).