

◆ **Features**

1. Magnetic Shielded surface mount inductor with high current rating.
2. Low resistance to keep power loss minimum.
3. The products contain no lead and also support lead-free soldering.



◆ **Applications**

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.



◆ **Lead Free Part Numbering**

CMLH 1204 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=2.2 μ H ;
100=10 μ H; 101=100 μ H
- (5) Inductance Tolerance: M= \pm 20%, Y= \pm 30%
- (6) Company Code
- (7) Packaging : packed in embossed carrier

◆ **Dimensions**

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
CMLH0703	7.3 \pm 0.3	7.3 \pm 0.3	3.5 Max.	1.8 \pm 0.2	5.0 \pm 0.2
CMLH0704	7.3 \pm 0.3	7.3 \pm 0.3	4.5 Max.	1.8 \pm 0.2	5.0 \pm 0.2
CMLH1204	12.0 \pm 0.3	12.0 \pm 0.3	5.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2
CMLH1205	12.0 \pm 0.3	12.0 \pm 0.3	6.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2
CMLH1207	12.0 \pm 0.3	12.0 \pm 0.3	8.0 Max.	5.0 \pm 0.2	7.6 \pm 0.2



◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
CMLH0703 Series				
CMLH0703SR47MTT	0.47 \pm 20%	0.25V/1K	17	10.50
CMLH0703S1R0MTT	1.0 \pm 20%	0.25V/1K	17	7.00
CMLH0703S1R5MTT	1.5 \pm 20%	0.25V/1K	17	6.00
CMLH0703S2R2MTT	2.2 \pm 20%	0.25V/1K	25	4.50
CMLH0703S3R3MTT	3.3 \pm 20%	0.25V/1K	25	4.20
CMLH0703S4R7MTT	4.7 \pm 20%	0.25V/1K	58	3.65
CMLH0703S6R8MTT	6.8 \pm 20%	0.25V/1K	58	3.00
CMLH0703S8R2MTT	8.2 \pm 20%	0.25V/1K	63	2.50
CMLH0703S100MTT	10 \pm 20%	0.25V/1K	69	2.30
CMLH0703S120MTT	12 \pm 20%	0.25V/1K	83	2.20
CMLH0703S150MTT	15 \pm 20%	0.25V/1K	108	2.00
CMLH0703S180MTT	18 \pm 20%	0.25V/1K	125	1.80
CMLH0703S220MTT	22 \pm 20%	0.25V/1K	158	1.50
CMLH0703S330MTT	33 \pm 20%	0.25V/1K	232	1.20
CMLH0703S390MTT	39 \pm 20%	0.25V/1K	282	0.90
CMLH0703S400MTT	40 \pm 20%	0.25V/1K	291	0.90
CMLH0703S470MTT	47 \pm 20%	0.25V/1K	374	0.80
CMLH0703S560MTT	56 \pm 20%	0.25V/1K	415	0.70
CMLH0703S680MTT	68 \pm 20%	0.25V/1K	432	0.61
CMLH0703S820MTT	82 \pm 20%	0.25V/1K	573	0.55
CMLH0703S101MTT	100 \pm 20%	0.25V/1K	656	0.50
CMLH0703S151MTT	150 \pm 20%	0.25V/1K	830	0.46
CMLH0703S181MTT	180 \pm 20%	0.25V/1K	913	0.39
CMLH0703S221MTT	220 \pm 20%	0.25V/1K	1370	0.38
CMLH0703S271MTT	270 \pm 20%	0.25V/1K	1917	0.36
CMLH0703S331MTT	330 \pm 20%	0.25V/1K	2175	0.35
CMLH0703S471MTT	470 \pm 20%	0.25V/1K	3469	0.32
CMLH0703S681MTT	680 \pm 20%	0.25V/1K	4756	0.30
CMLH0703S821MTT	820 \pm 20%	0.25V/1K	5810	0.28
CMLH0703S102MTT	1000 \pm 20%	0.25V/1K	8018	0.26

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
CMLH0704 Series				
CMLH0704S1R0MTT	1.0 \pm 20%	0.25V/1K	12	9.00
CMLH0704S1R2MTT	1.2 \pm 20%	0.25V/1K	21	8.00
CMLH0704S1R5MTT	1.5 \pm 20%	0.25V/1K	25	8.00
CMLH0704S1R8MTT	1.8 \pm 20%	0.25V/1K	27	7.00
CMLH0704S2R2MTT	2.2 \pm 20%	0.25V/1K	29	6.20
CMLH0704S2R7MTT	2.7 \pm 20%	0.25V/1K	33	5.50
CMLH0704S3R3MTT	3.3 \pm 20%	0.25V/1K	37	4.70
CMLH0704S4R7MTT	4.7 \pm 20%	0.25V/1K	39	3.50
CMLH0704S6R2MTT	6.2 \pm 20%	0.25V/1K	42	3.40
CMLH0704S6R8MTT	6.8 \pm 20%	0.25V/1K	42	3.40
CMLH0704S8R2MTT	8.2 \pm 20%	0.25V/1K	44	3.10
CMLH0704S100MTT	10 \pm 20%	0.25V/1K	46	3.00
CMLH0704S150MTT	15 \pm 20%	0.25V/1K	67	2.50
CMLH0704S180MTT	18 \pm 20%	0.25V/1K	83	2.00
CMLH0704S220MTT	22 \pm 20%	0.25V/1K	91	1.95
CMLH0704S270MTT	27 \pm 20%	0.25V/1K	106	1.50
CMLH0704S330MTT	33 \pm 20%	0.25V/1K	208	1.20
CMLH0704S390MTT	39 \pm 20%	0.25V/1K	249	1.10
CMLH0704S470MTT	47 \pm 20%	0.25V/1K	266	1.00
CMLH0704S560MTT	56 \pm 20%	0.25V/1K	291	1.00
CMLH0704S680MTT	68 \pm 20%	0.25V/1K	315	0.90
CMLH0704S101MTT	100 \pm 20%	0.25V/1K	506	0.85
CMLH0704S121MTT	120 \pm 20%	0.25V/1K	540	0.85
CMLH0704S151MTT	150 \pm 20%	0.25V/1K	730	0.75
CMLH0704S171MTT	170 \pm 20%	0.25V/1K	1079	0.74
CMLH0704S181MTT	180 \pm 20%	0.25V/1K	1121	0.70
CMLH0704S221MTT	220 \pm 20%	0.25V/1K	1162	0.62
CMLH0704S271MTT	270 \pm 20%	0.25V/1K	1245	0.55
CMLH0704S331MTT	330 \pm 20%	0.25V/1K	1245	0.50
CMLH0704S391MTT	390 \pm 20%	0.25V/1K	1494	0.48
CMLH0704S471MTT	470 \pm 20%	0.25V/1K	2158	0.40

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
CMLH1204 Series				
CMLH1204S3R3MTT	3.3 \pm 20%	0.25V/1K	15	6.50
CMLH1204S4R7MTT	4.7 \pm 20%	0.25V/1K	18	5.70
CMLH1204S6R8MTT	6.8 \pm 20%	0.25V/1K	23	4.90
CMLH1204S8R2MTT	8.2 \pm 20%	0.25V/1K	26	4.60
CMLH1204S100MTT	10 \pm 20%	0.25V/1K	28	4.50
CMLH1204S120MTT	12 \pm 20%	0.25V/1K	38	4.10
CMLH1204S150MTT	15 \pm 20%	0.25V/1K	50	3.20
CMLH1204S180MTT	18 \pm 20%	0.25V/1K	57	3.10
CMLH1204S220MTT	22 \pm 20%	0.25V/1K	66	2.90
CMLH1204S270MTT	27 \pm 20%	0.25V/1K	80	2.80
CMLH1204S330MTT	33 \pm 20%	0.25V/1K	97	2.70
CMLH1204S390MTT	39 \pm 20%	0.25V/1K	132	2.10
CMLH1204S470MTT	47 \pm 20%	0.25V/1K	160	1.90
CMLH1204S560MTT	56 \pm 20%	0.25V/1K	190	1.80
CMLH1204S680MTT	68 \pm 20%	0.25V/1K	220	1.50
CMLH1204S820MTT	82 \pm 20%	0.25V/1K	260	1.30
CMLH1204S101MTT	100 \pm 20%	0.25V/1K	308	1.20
CMLH1204S121MTT	120 \pm 20%	0.25V/1K	380	1.10
CMLH1204S151MTT	150 \pm 20%	0.25V/1K	530	0.95
CMLH1204S181MTT	180 \pm 20%	0.25V/1K	620	0.85
CMLH1204S221MTT	220 \pm 20%	0.25V/1K	700	0.80
CMLH1204S271MTT	270 \pm 20%	0.25V/1K	870	0.60
CMLH1204S331MTT	330 \pm 20%	0.25V/1K	990	0.50

◆ Specification

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
CMLH1205 Series				
CMLH1205S1R5MTT	1.5 \pm 20%	0.25V/7.96M	12	8.00
CMLH1205S2R2MTT	2.2 \pm 20%	0.25V/7.96M	14	7.00
CMLH1205S3R3MTT	3.3 \pm 20%	0.25V/7.96M	17	6.00
CMLH1205S4R7MTT	4.7 \pm 20%	0.25V/7.96M	20	5.00
CMLH1205S6R8MTT	6.8 \pm 20%	0.25V/7.96M	21	4.50
CMLH1205S7R5MTT	7.5 \pm 20%	0.25V/7.96M	24	4.30
CMLH1205S100MTT	10 \pm 20%	0.25V/1K	25	4.00
CMLH1205S120MTT	12 \pm 20%	0.25V/1K	27	3.50
CMLH1205S150MTT	15 \pm 20%	0.25V/1K	30	3.30
CMLH1205S180MTT	18 \pm 20%	0.25V/1K	34	3.00
CMLH1205S220MTT	22 \pm 20%	0.25V/1K	36	2.80
CMLH1205S270MTT	27 \pm 20%	0.25V/1K	51	2.30
CMLH1205S330MTT	33 \pm 20%	0.25V/1K	57	2.10
CMLH1205S390MTT	39 \pm 20%	0.25V/1K	68	2.00
CMLH1205S470MTT	47 \pm 20%	0.25V/1K	75	1.80
CMLH1205S560MTT	56 \pm 20%	0.25V/1K	110	1.70
CMLH1205S680MTT	68 \pm 20%	0.25V/1K	120	1.50
CMLH1205S820MTT	82 \pm 20%	0.25V/1K	140	1.40
CMLH1205S101MTT	100 \pm 20%	0.25V/1K	160	1.30
CMLH1205S121MTT	120 \pm 20%	0.25V/1K	170	1.10
CMLH1205S151MTT	150 \pm 20%	0.25V/1K	230	1.00
CMLH1205S181MTT	180 \pm 20%	0.25V/1K	290	0.90
CMLH1205S221MTT	220 \pm 20%	0.25V/1K	400	0.80
CMLH1205S271MTT	270 \pm 20%	0.25V/1K	460	0.75
CMLH1205S331MTT	330 \pm 20%	0.25V/1K	510	0.68
CMLH1205S391MTT	390 \pm 20%	0.25V/1K	690	0.65
CMLH1205S471MTT	470 \pm 20%	0.25V/1K	770	0.58
CMLH1205S561MTT	560 \pm 20%	0.25V/1K	860	0.54
CMLH1205S681MTT	680 \pm 20%	0.25V/1K	1200	0.48
CMLH1205S821MTT	820 \pm 20%	0.25V/1K	1340	0.43
CMLH1205S102MTT	1000 \pm 20%	0.25V/1K	1530	0.4

◆ **Specification**

Part Number	Inductance (μ H)	Test Frequency (Hz)	DCR (m Ω) max.	IDC (A) max.
CMLH1207 Series				
CMLH1207S1R5MTT	1.5 \pm 20%	0.25V/1K	7.0	10.00
CMLH1207S2R2MTT	2.2 \pm 20%	0.25V/1K	11.5	8.00
CMLH1207S3R3MTT	3.3 \pm 20%	0.25V/1K	13.5	7.50
CMLH1207S3R9MTT	3.9 \pm 20%	0.25V/1K	14.5	7.00
CMLH1207S4R7MTT	4.7 \pm 20%	0.25V/1K	15.8	6.80
CMLH1207S6R8MTT	6.8 \pm 20%	0.25V/1K	17.6	6.60
CMLH1207S100MTT	10 \pm 20%	0.25V/1K	21.6	5.40
CMLH1207S120MTT	12 \pm 20%	0.25V/1K	24.3	4.90
CMLH1207S150MTT	15 \pm 20%	0.25V/1K	27.0	4.60
CMLH1207S180MTT	18 \pm 20%	0.25V/1K	39.2	3.90
CMLH1207S220MTT	22 \pm 20%	0.25V/1K	43.2	3.60
CMLH1207S270MTT	27 \pm 20%	0.25V/1K	45.9	3.40
CMLH1207S330MTT	33 \pm 20%	0.25V/1K	64.8	3.00
CMLH1207S390MTT	39 \pm 20%	0.25V/1K	72.9	2.75
CMLH1207S470MTT	47 \pm 20%	0.25V/1K	100	2.50
CMLH1207S560MTT	56 \pm 20%	0.25V/1K	110	2.35
CMLH1207S680MTT	68 \pm 20%	0.25V/1K	140	2.10
CMLH1207S820MTT	82 \pm 20%	0.25V/1K	160	1.95
CMLH1207S101MTT	100 \pm 20%	0.25V/1K	220	1.70
CMLH1207S121MTT	120 \pm 20%	0.25V/1K	250	1.60
CMLH1207S151MTT	150 \pm 20%	0.25V/1K	280	1.42
CMLH1207S181MTT	180 \pm 20%	0.25V/1K	350	1.30
CMLH1207S221MTT	220 \pm 20%	0.25V/1K	390	1.16
CMLH1207S271MTT	270 \pm 20%	0.25V/1K	560	1.06
CMLH1207S331MTT	330 \pm 20%	0.25V/1K	640	0.95
CMLH1207S391MTT	390 \pm 20%	0.25V/1K	700	0.88
CMLH1207S471MTT	470 \pm 20%	0.25V/1K	980	0.79
CMLH1207S561MTT	560 \pm 20%	0.25V/1K	1070	0.73
CMLH1207S681MTT	680 \pm 20%	0.25V/1K	1460	0.67
CMLH1207S821MTT	820 \pm 20%	0.25V/1K	1640	0.60
CMLH1207S102MTT	1000 \pm 20%	0.25V/1K	1820	0.55

◆ **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°C, whichever is smaller. (Reference ambient temperature 25°C).

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