

◆ **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.



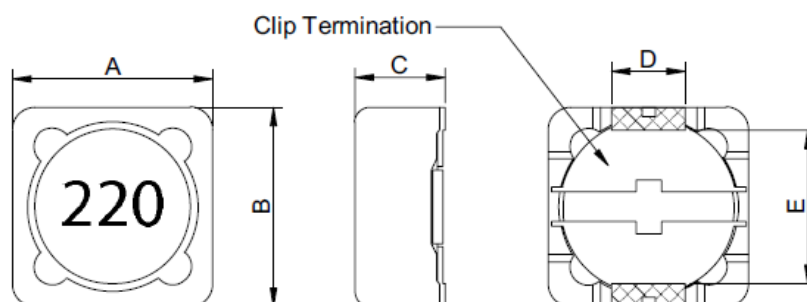
◆ **Lead Free Part Numbering**

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=2.2μH ;
100=10μH; 101=100μH
- (5) Inductance Tolerance: M=±20%, Y=±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±0.3 | 7.3±0.3 | 3.5 Max. | 1.8±0.2 | 5.0±0.2 |
| CMLH0704 | 7.3±0.3 | 7.3±0.3 | 4.5 Max. | 1.8±0.2 | 5.0±0.2 |
| CMLH1204 | 12.0±0.3 | 12.0±0.3 | 5.0 Max. | 5.0±0.2 | 7.6±0.2 |
| CMLH1205 | 12.0±0.3 | 12.0±0.3 | 6.0 Max. | 5.0±0.2 | 7.6±0.2 |
| CMLH1207 | 12.0±0.3 | 12.0±0.3 | 8.0 Max. | 5.0±0.2 | 7.6±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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