



| Part number | L0(uH) Inductance ±20% @0A(μH) | Rdc (mΩ) @25°C | | Heat Rating Current DC Amps. Idc (A) | Saturation Current DC Amps Isat (A) |
|-----------------|---|----------------|--------|---|--|
| | | Typ. | Max. | | |
| MCW-0630-R10-N2 | 0.10 | 1.50 | 1.70 | 32.50 | 60.00 |
| MCW-0630-R22-N2 | 0.22 | 2.50 | 3.00 | 21.00 | 34.00 |
| MCW-0630-R33-N2 | 0.33 | 3.00 | 3.50 | 21.00 | 25.00 |
| MCW-0630-R47-N2 | 0.47 | 3.50 | 4.10 | 18.00 | 20.00 |
| MCW-0630-R56-N2 | 0.56 | 4.25 | 4.90 | 15.00 | 18.00 |
| MCW-0630-R68-N2 | 0.68 | 5.00 | 5.70 | 14.00 | 17.00 |
| MCW-0630-R82-N2 | 0.82 | 6.00 | 6.90 | 12.00 | 16.00 |
| MCW-0630-1R0-N2 | 1.00 | 7.00 | 7.50 | 11.00 | 15.00 |
| MCW-0630-1R2-N2 | 1.20 | 8.00 | 10.50 | 10.00 | 14.00 |
| MCW-0630-1R5-N2 | 15.00 | 10.60 | 12.10 | 9.00 | 14.00 |
| MCW-0630-1R8-N2 | 1.80 | 14.00 | 16.00 | 7.50 | 13.00 |
| MCW-0630-2R2-N2 | 2.20 | 15.50 | 17.50 | 7.00 | 10.00 |
| MCW-0630-2R5-N2 | 2.50 | 16.00 | 18.00 | 6.50 | 10.00 |
| MCW-0630-3R3-N2 | 3.30 | 23.00 | 26.00 | 6.00 | 9.50 |
| MCW-0630-4R7-N2 | 4.70 | 34.50 | 38.00 | 5.00 | 6.50 |
| MCW-0630-5R6-N2 | 5.60 | 36.00 | 42.00 | 5.00 | 6.25 |
| MCW-0630-6R8-N2 | 6.80 | 50.00 | 54.00 | 4.50 | 6.00 |
| MCW-0630-8R2-N2 | 8.20 | 58.50 | 65.00 | 4.00 | 6.00 |
| MCW-0630-100-N2 | 10.00 | 64.00 | 68.00 | 4.00 | 5.00 |
| MCW-0630-120-N2 | 12.00 | 85.00 | 98.00 | 3.00 | 4.50 |
| MCW-0630-150-N2 | 15.00 | 98.00 | 115.00 | 2.80 | 3.80 |
| MCW-0630-220-N2 | 22.00 | 165.00 | 189.00 | 1.50 | 3.10 |
| MCW-0630-330-N2 | 33.00 | 225.00 | 257.00 | 1.00 | 2.90 |

※Note:

- All test data is reference to 25°C ambient.
- Test Condition: 100KHz, 1.0Vrms
- Idc: DC current (A) that will cause an approximate ΔT of 40°C
- Isat : DC current (A) that will cause L0 to drop approximately 30%
- Operat between temperature range -55°C to +125°C
The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component.PWB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

※ Regulation of Part number

$$\begin{matrix} \text{MC} & \text{W} & = & \text{0630} & = & \text{2R2} & = & \text{N} & \text{2} \\ \text{①} & \text{②} & & \text{③} & & \text{④} & & \text{⑤} & \text{⑥} \end{matrix}$$

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):6.0x6.0x3.0;

※ Features

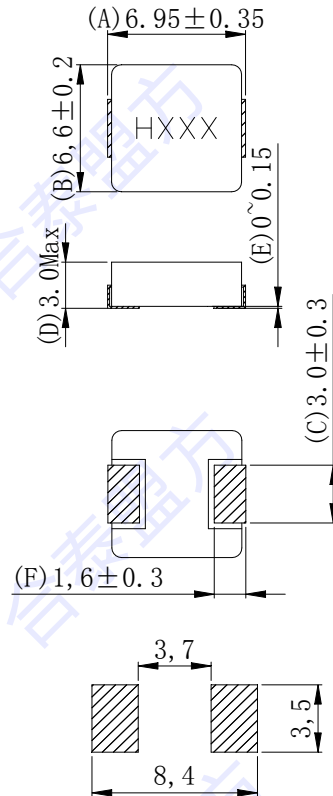
- High performance (Isat) realize by metal dust core.
- Low profile:Thickness max.3.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta



※ Application

- DC/DC converters for laptop motherboards/CPU
Thin type of on-board power supply module for Voltage regulator VRM for server

※ Dimensions in inches (unit:mm)



Suggested pad layout
Dimensions are in mm

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