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|-----------------|-------|--------|--------|-------|-------|
| MCF-1040-R22-S1 | 0.22 | 0.90 | 1.00 | 35.00 | 65.00 |
| MCF-1040-R36-S1 | 0.36 | 1.05 | 1.20 | 30.00 | 60.00 |
| MCF-1040-R47-S1 | 0.47 | 1.60 | 1.80 | 26.00 | 40.00 |
| MCF-1040-R56-S1 | 0.56 | 1.60 | 1.80 | 26.00 | 40.00 |
| MCF-1040-R68-S1 | 0.68 | 2.40 | 2.70 | 22.00 | 39.00 |
| MCF-1040-1R0-S1 | 1.00 | 3.00 | 3.30 | 18.00 | 36.00 |
| MCF-1040-1R5-S1 | 1.50 | 3.80 | 4.20 | 16.00 | 33.00 |
| MCF-1040-2R2-S1 | 2.20 | 7.00 | 8.00 | 12.00 | 27.00 |
| MCF-1040-3R3-S1 | 3.30 | 10.80 | 11.80 | 10.00 | 18.70 |
| MCF-1040-4R7-S1 | 4.70 | 15.00 | 16.50 | 9.50 | 17.00 |
| MCF-1040-5R6-S1 | 5.60 | 17.00 | 19.30 | 9.00 | 14.00 |
| MCF-1040-6R8-S1 | 6.80 | 19.00 | 23.30 | 8.50 | 13.50 |
| MCF-1040-8R2-S1 | 8.20 | 20.00 | 22.50 | 8.00 | 12.50 |
| MCF-1040-100-S1 | 10.00 | 27.00 | 30.00 | 7.50 | 12.00 |
| MCF-1040-150-S1 | 15.00 | 40.00 | 45.00 | 6.25 | 9.00 |
| MCF-1040-220-S1 | 22.00 | 64.00 | 74.00 | 5.00 | 7.00 |
| MCF-1040-330-S1 | 33.00 | 98.00 | 112.00 | 3.50 | 5.00 |
| MCF-1040-470-S1 | 47.00 | 145.00 | 167.00 | 3.00 | 4.50 |
| MCF-1040-680-S1 | 68.00 | 205.00 | 240.00 | 2.00 | 4.00 |

※Note:

- All test data is reference to 25°C ambient.
- Test Condition: 100KHz, 1.0Vrms
- I_{dc}: DC current (A) that will cause an approximate ΔT of 40°C
- I_{sat}: DC current (A) that will cause L0 to drop approximately 20%
- 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

MC F = 1040 = 2R2 = S 1
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:F;
- ③ Dimensions(unit:mm):10.0x10.0x4.0;

- ④ Inductance Value:2R2=2.2μH;
- ⑤ The Material Code;
- ⑥ Material Type;

※ Features

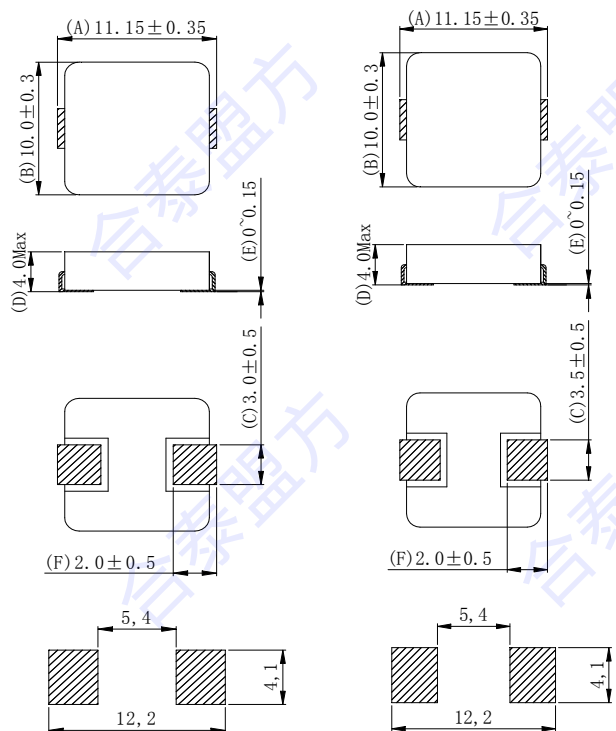
- High performance (I_{sat}) realizde by metal dust core.
- Low profile:Thickness max.4.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (3MHz)
- 100% lead (Pb) free meet RoHS s



※ 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

Suggested pad layout
Dimensions are in mm

the diagram above applies
to values 0.56uH and
above

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to values 0.56uH and below

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