



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.		
MCF-1050-R33-S1	0.33	0.90	1.00	37.00	62.00
MCF-1050-R36-S1	0.36	1.00	1.10	35.00	60.00
MCF-1050-R47-S1	0.47	1.20	1.35	30.00	55.00
MCF-1050-R56-S1	0.56	1.45	1.60	27.00	50.00
MCF-1050-R68-S1	0.68	1.60	1.80	25.00	48.00
MCF-1050-1R0-S1	1.00	2.50	3.10	19.00	38.00
MCF-1050-1R5-S1	1.50	4.50	5.50	16.00	32.00
MCF-1050-2R2-S1	2.20	6.20	7.00	12.00	27.00
MCF-1050-3R3-S1	3.30	10.50	11.80	11.00	23.00
MCF-1050-4R7-S1	4.70	14.50	16.00	10.00	18.00
MCF-1050-100-S1	10.00	27.00	30.00	6.00	12.00

※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 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 = 1050 = 2R2 = S 1
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:F;
- ③ Dimensions(unit:mm):10.0x10.0x5.0;

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

※ Features

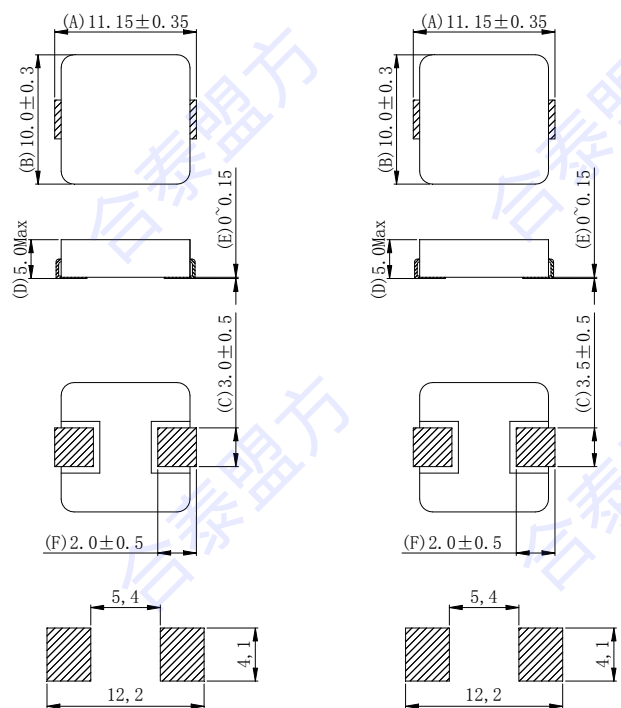
- High performance (Isat) realizde by metal dust core.
- Low profile:Thickness max.5.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (3MHz)
- 100% lead (Pb) free meet RoHS s



※ 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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