



Part number	L0(μH) Inductance ±20% @0A(μH)	Rdc (mΩ) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps Isat (A)
		Typ.	Max.		
MCF-1040-R22-N2	0.22	0.90	1.00	35.00	50.00
MCF-1040-R36-N2	0.36	1.05	1.20	30.00	50.00
MCF-1040-R47-N2	0.47	1.53	1.68	25.00	40.00
MCF-1040-R56-N2	0.56	1.60	1.80	25.00	33.00
MCF-1040-R68-N2	0.68	2.10	2.40	23.00	30.00
MCF-1040-1R0-N2	1.00	3.00	3.30	18.00	28.00
MCF-1040-1R5-N2	1.50	3.80	4.20	15.00	26.00
MCF-1040-1R8-N2	1.50	5.00	5.80	13.00	23.00
MCF-1040-2R0-N2	2.00	6.00	6.90	12.00	20.00
MCF-1040-2R2-N2	2.20	6.00	7.00	12.00	18.00
MCF-1040-3R3-N2	3.30	10.80	11.80	10.00	16.00
MCF-1040-4R7-N2	4.70	17.00	20.00	8.50	13.00
MCF-1040-5R6-N2	5.60	20.00	23.00	8.00	11.00
MCF-1040-6R8-N2	6.80	22.50	25.00	7.00	10.00
MCF-1040-8R2-N2	8.20	25.00	27.00	7.00	9.00
MCF-1040-100-N2	10.00	27.00	30.00	6.50	8.50
MCF-1040-150-N2	15.00	40.00	45.00	6.25	7.00
MCF-1040-220-N2	22.00	60.00	66.00	5.00	5.50
MCF-1040-330-N2	33.00	85.00	92.00	4.00	4.50
MCF-1040-470-N2	47.00	130.00	145.00	3.30	3.50
MCF-1040-680-N2	68.00	195.00	210.00	2.00	3.00

※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 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

$$\underset{\textcircled{1}}{MC} \underset{\textcircled{2}}{F} = \underset{\textcircled{3}}{1040} = \underset{\textcircled{4}}{2R2} = \underset{\textcircled{5}}{N} \underset{\textcircled{6}}{2}$$

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

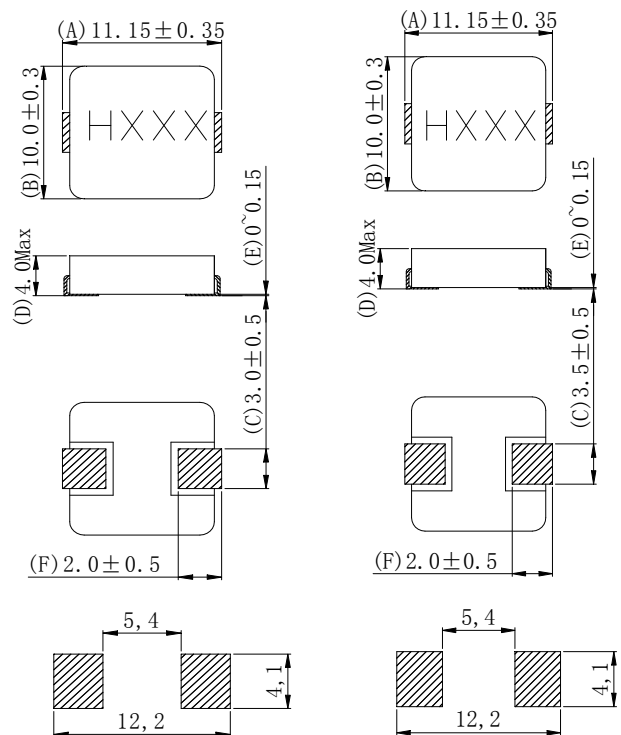
- High performance (Isat) realizde by metal dust core.
- Low profile:Thickness max.4.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS s



※ 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

the diagram above applies to values 0.56uH and above

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