



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-1030-R22-N2	0.22	1.07	1.20	30.00	50.00
MCF-1030-R24-N2	0.24	1.10	1.27	30.00	50.00
MCF-1030-R33-N2	0.33	1.30	1.60	23.00	32.00
MCF-1030-R36-N2	0.36	1.30	1.60	23.00	28.00
MCF-1030-R47-N2	0.47	2.10	2.50	22.00	26.00
MCF-1030-R56-N2	0.56	2.40	3.00	22.00	24.00
MCF-1030-R68-N2	0.68	2.90	3.40	21.00	23.00
MCF-1030-1R0-N2	1.00	5.50	6.00	15.00	21.00
MCF-1030-1R5-N2	1.50	6.50	7.50	12.00	18.00
MCF-1030-2R2-N2	2.20	8.00	9.00	11.00	14.00
MCF-1030-3R3-N2	3.30	14.50	16.00	9.00	12.00
MCF-1030-4R7-N2	4.70	20.50	22.50	7.00	10.00
MCF-1030-5R6-N2	5.60	27.00	30.00	6.00	10.00
MCF-1030-6R8-N2	6.80	30.00	35.00	5.50	7.50
MCF-1030-8R2-N2	8.20	35.00	45.00	5.00	7.00
MCF-1030-100-N2	10.00	50.00	55.00	4.50	6.50
MCF-1030-150-N2	15.00	59.00	65.00	4.00	5.00
MCF-1030-220-N2	22.00	90.00	99.00	3.00	4.00

※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

$$\underset{\textcircled{1}}{MC} \underset{\textcircled{2}}{F} = \underset{\textcircled{3}}{1030} = \underset{\textcircled{4}}{2R2} = \underset{\textcircled{5}}{N} \underset{\textcircled{6}}{2}$$

- ① Molding Choke;
- ② Mold Categories:F;
- ③ Dimensions(unit:mm):10.0x10.0x3.0;
- ④ Inductance Value:2R2=2.2μH;
- ⑤ The Material Code;
- ⑥ Material Type;

※ Features

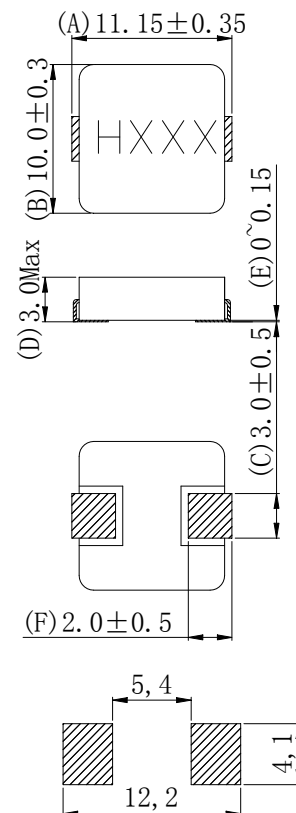
- High performance (Isat) realize by metal dust core.
- Low profile:Thickness max.3.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta



※ 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