



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

※ Features

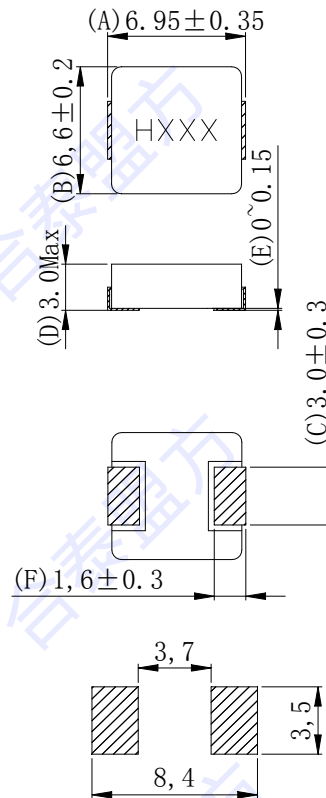
- High performance (Isat) realized by metal dust core.
- Low profile: Thickness max.3.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta



※ 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

※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

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

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):6.0x6.0x3.0;
- ④ Inductance Value:2R2=2.2μH;
- ⑤ The Material Code;
- ⑥ Material Type;