



Part number	L0(μH) Inductance ±20% @0A(μH)	Rdc (mΩ) @25°C		Heat Rating	Saturation
		Typ.	Max.	Current DC Amps. Idc (A)	Current DC Amps Isat (A)
MCW-0530-R47-N1	0.47	6.5	7.5	12.00	15.00
MCW-0530-R68-N1	0.68	11.0	12.0	8.50	14.00
MCW-0530-R75-N1	0.75	12.0	13.0	8.00	12.00
MCW-0530-1R0-N1	1.00	13.0	14.0	7.00	11.00
MCW-0530-1R2-N1	1.20	15.0	16.0	6.50	11.00
MCW-0530-1R5-N1	1.50	17.0	22.0	6.00	9.50
MCW-0530-2R2-N1	2.20	27.0	33.0	5.50	9.00
MCW-0530-3R3-N1	3.30	32.0	38.0	5.00	6.50
MCW-0530-4R7-N1	4.70	50.0	60.0	4.00	5.00
MCW-0530-5R6-N1	5.60	55.0	63.0	3.80	4.50
MCW-0530-6R8-N1	6.80	69.0	76.0	3.50	4.30
MCW-0530-8R2-N1	8.20	80.0	105.0	3.25	4.00
MCW-0530-100-N1	10.00	115.0	130.0	2.70	3.50
MCW-0530-150-N1	15.00	150.0	165.0	1.80	2.20

※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

MC W = 0530 - 2R2 - N 1  
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):5.0x5.0x3.0

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

※ Features

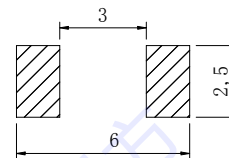
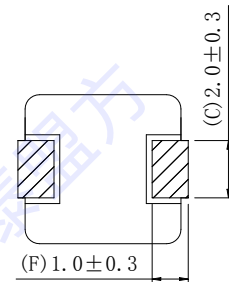
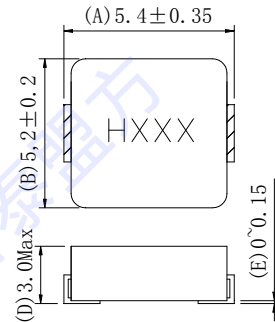
- High performance (Isat) realize by metal dust core.
- Low profile:Thickness max.3.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta



※ 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