



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-0420-R10-N1	0.10	3.50	4.00	12.00	30.00
MCW-0420-R22-N1	0.22	6.00	6.60	9.00	12.50
MCW-0420-R47-N1	0.47	12.50	14.00	7.00	10.50
MCW-0420-R56-N1	0.56	14.00	16.00	6.50	10.00
MCW-0420-R68-N1	0.68	16.00	18.00	6.00	9.00
MCW-0420-1R0-N1	1.00	24.00	27.00	4.50	7.00
MCW-0420-1R2-N1	1.20	24.00	27.00	4.50	7.00
MCW-0420-1R5-N1	1.50	38.00	46.00	4.00	6.00
MCW-0420-2R2-N1	2.20	52.00	58.00	3.00	5.00
MCW-0420-3R3-N1	3.30	74.00	87.00	2.50	4.00
MCW-0420-4R7-N1	4.70	92.00	105.00	2.20	3.00
MCW-0420-6R8-N1	6.80	162.00	178.00	2.00	2.50
MCW-0420-8R2-N1	8.20	188.00	207.00	1.80	2.00
MCW-0420-100-N1	10.00	256.00	282.00	1.60	1.80

※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 = 0420 - 2R2 - N 1  
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):4.0x4.0x2.0

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

※ Features

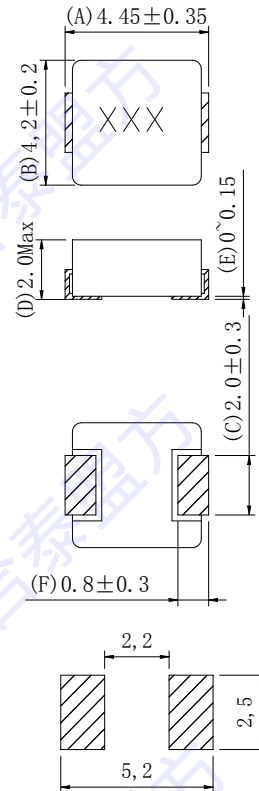
- High performance (Isat) realize by metal dust core.
- Low profile:Thickness max.2.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta



※ 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

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