



※ Features

- High performance (Isat) realize by metal dust core.
- Low profile: Thickness max. 1.8mm
- 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

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-0518-R47-N1	0.47	7.70	9.00	10.50	15.50
MCW-0518-R56-N1	0.56	8.00	10.00	9.50	15.00
MCW-0518-R68-N1	0.68	12.00	18.00	8.90	11.20
MCW-0518-1R0-N1	1.00	15.00	17.00	8.00	9.00
MCW-0518-1R2-N1	1.20	17.00	20.00	7.50	8.00
MCW-0518-2R2-N1	2.20	30.00	35.00	5.00	6.50
MCW-0518-3R3-N1	3.30	52.00	58.00	4.50	5.00
MCW-0518-4R7-N1	4.70	78.00	85.00	3.50	4.00
MCW-0518-6R8-N1	6.80	107.00	120.00	2.80	3.40
MCW-0518-8R2-N1	8.20	140.00	150.00	2.60	3.10
MCW-0518-100-N1	10.00	150.00	175.00	2.50	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.

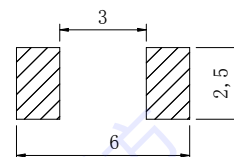
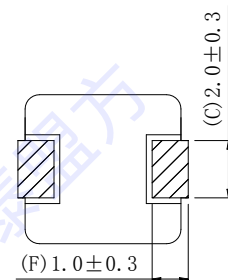
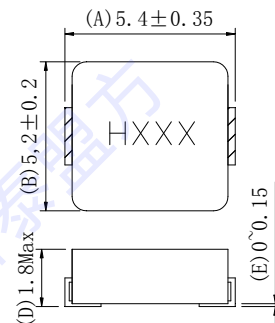
※ Regulation of Part number

MC W - 0518 - 2R2 - N 1  
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):5.0x5.0x1.8

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

※ Dimensions in inches (unit:mm)



Suggested pad layout  
Dimensions are in mm

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