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Part number	L0(uH) Inductance ±20%	Rdc (mΩ	2) @25°C	Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps Isat (A)				
	@0A(µH)	Тур. Мах.		Тур.	Тур.				
MCW-0520-R22-N1	0.22	3.80	4.50	15.00	18.70				
MCW-0520-R56-N1	0.56	8.00	10.00	9.50	15.00				
MCW-0520-R68-N1	0.68	12.00	18.00	8.90	11.20				
MCW-0520-1R0-N1	1.00	15.00	17.00	8.00	9.00				
MCW-0520-1R5-N1	1.50	25.00	30.00	5.50	8.00				
MCW-0520-2R2-N1	2.20	30.00	34.00	5.00	7.00				
MCW-0520-3R3-N1	3.30	52.00	58.00	4.50	5.00				
MCW-0520-4R7-N1	4.70	70.00	78.00	3.50	4.00				
MCW-0520-6R8-N1	6.80	107.00	120.00	2.80	3.40				
MCW-0520-8R2-N1	8.20	140.00	150.00	2.60	3.10				
MCW-0520-100-N1	10.00	150.00	175.00	2.50	3.00				

XNote:

- All test data is reference to 25℃ ambient.
- Test Condition: 100KHz, 1.0Vrms
- ldc: DC current (A) that will cause an approximate △T 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.

X Features

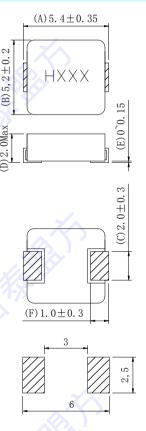
- High performance (Isat) realized by metal dust core.
- Low profile:Thickness max.2.0mm
- Low loss and low resistance
- Capable of corresponding high frequency (1MHz)
- 100% lead (Pb) free meet RoHS sta

RoHS

X 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

Regulation of Part number

MC W	=	<u>0520</u>	_	2R2	=	<u>N</u>	<u>1</u>
(1) (2)		(3)		(4)		(5)	(6)

- ① Molding Choke;
- ② Mold Categories:W;
- ③ Dimensions(unit:mm):5.0x5.0x2.0

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

