HOTLAND
合泰盟方

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※ Features

● High performance (Isat) realizde 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

RoHS

※ 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(uH) Inductance ±20% @0A(µH)	Rdc (mΩ) @25℃		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps Isat（A）
		Typ.	Max.	Typ.	Typ.
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

※ Dimensions in inches (unit:mm)

Suggested pad layout
Dimensions are in mm

※Note:

● All test data is reference to 25℃ ambient.

● Test Condition：100KHz，1.0Vrms

● Idc：DC current (A) that will cause an approximate △T of 40℃

● Isat ：DC current (A) that will cause L0 to drop approximately 30%

● Operat between temperature range -55℃ to +125℃

The part temperature (ambient + temp rise) should not exceed

125℃ 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

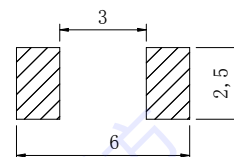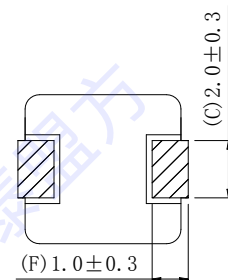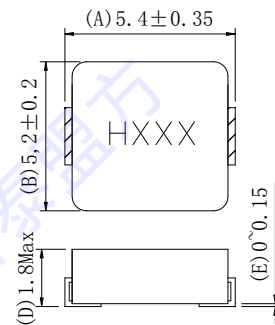heating current depending on which value is lower.

※ Regulation of Part number

<u>MC</u> <u>W</u> - <u>0518</u> - <u>2R2</u> - <u>N</u> <u>1</u>
① ② ③ ④ ⑤ ⑥

① Molding Choke；

② Mold Categories:W；

③ Dimensions(unit:mm):5.0x5.0x1.8

④ Inductance Value:2R2=2.2µH；

⑤ The Material Code；

⑥ Material Type；