※ 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

※ Application

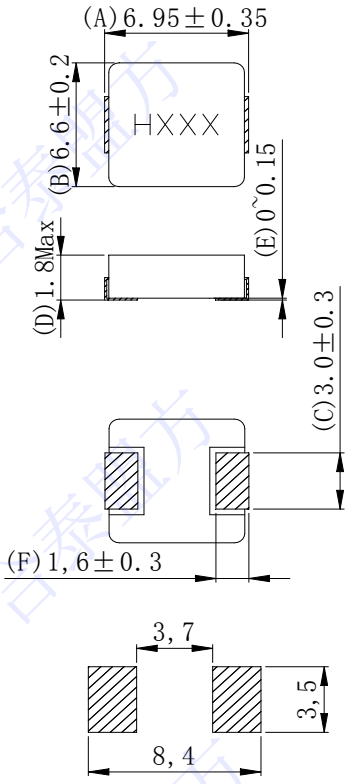
- DC/DC converters for laptop motherboards/CPU

  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-0618-R10-N1	0.10	6.80	2.50	18.00	45.00
MCW-0618-R22-N1	0.22	4.50	5.20	14.00	29.00
MCW-0618-R33-N1	0.33	5.20	6.80	12.00	22.00
MCW-0618-R47-N1	0.47	7.30	8.40	11.00	18.00
MCW-0618-R68-N1	0.68	10.80	12.70	9.00	17.00
MCW-0618-1R0-N1	1.00	14.50	17.00	7.00	12.00
MCW-0618-1R5-N1	1.50	20.00	26.00	6.50	10.00
MCW-0618-2R0-N1	2.00	28.00	32.00	6.00	8.00
MCW-0618-2R2-N1	2.20	31.00	35.00	6.00	8.00
MCW-0618-3R3-N1	3.30	56.00	60.00	3.50	7.00
MCW-0618-4R7-N1	4.70	68.00	70.00	3.50	5.00
MCW-0618-6R8-N1	6.80	101.00	110.00	2.80	3.50
MCW-0618-8R2-N1	8.20	120.00	135.00	2.50	3.00
MCW-0618-100-N1	10.00	140.00	155.00	2.30	2.50
MCW-0618-150-N1	15.00	215.00	250.00	1.80	2.20

※ 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

MC W - 0618 - 2R2 - N 1
① ② ③ ④ ⑤ ⑥

① Molding Choke；
② Mold Categories:W；
③ Dimensions(unit:mm):6.0x6.0x1.8；
④ Inductance Value:2R2=2.2μH；
⑤ The Material Code；
⑥ Material Type；