※ Features

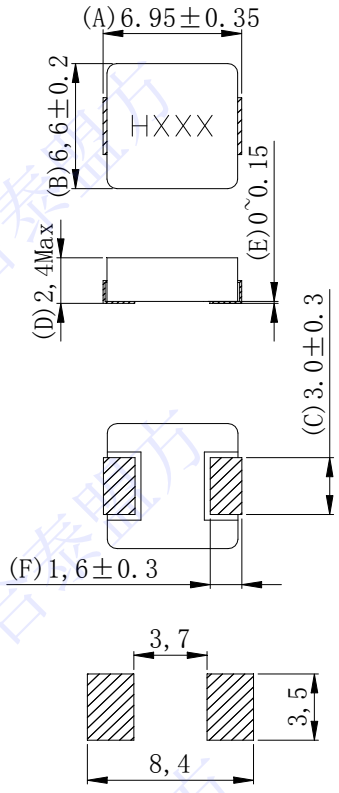
- High performance (Isat) realizde by metal dust core.
- Low profile:Thickness max.2.4mm
- Low loss and low resistance
- Capable of corresponding high frequency (3MHz)
- 100% lead (Pb) free meet RoHS sta

※ 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°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps Isat（A）
		Typ.	Max.	Typ.	Typ.
MCW-0624-R22-S1	0.22	2.60	3.20	21.00	40.00
MCW-0624-R33-S1	0.33	3.50	4.10	18.00	24.50
MCW-0624-R47-S1	0.47	4.50	5.10	15.00	22.00
MCW-0624-R56-S1	0.56	5.90	6.50	13.00	20.00
MCW-0624-R68-S1	0.68	7.50	8.50	11.00	20.00
MCW-0624-R82-S1	0.82	8.30	9.50	10.00	17.00
MCW-0624-1R0-S1	1.00	11.20	13.50	9.00	16.00
MCW-0624-1R5-S1	1.50	17.00	20.00	9.00	15.00
MCW-0624-2R2-S1	2.20	23.00	28.00	7.00	14.00
MCW-0624-3R3-S1	3.30	31.00	39.00	5.50	13.00
MCW-0624-4R7-S1	4.70	41.00	50.00	5.00	10.00
MCW-0624-5R6-S1	5.60	51.00	60.00	5.00	6.50
MCW-0624-6R8-S1	6.80	57.00	70.00	4.00	6.50
MCW-0624-8R2-S1	8.20	78.00	90.00	3.50	6.00
MCW-0624-100-S1	10.00	92.00	101.00	3.10	5.00

※ 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 20%
- 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 - 0624 - 2R2 - S 1
① ② ③ ④ ⑤ ⑥

① Molding Choke；
② Mold Categories:W；
③ Dimensions(unit:mm):6.0x6.0x2.4；
④ Inductance Value:2R2=2.2μH；
⑤ The Material Code；
⑥ Material Type；