

Part number	L0(μH) Inductance ±20% @0A(μH)	Rdc (mΩ) @25°C	Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps Isat (A)
		Max.	Typ.	Typ.
MCEC-0530-R15M	0.15	2.30	22.20	36.00
MCEC-0530-R33M	0.33	3.50	19.20	28.00
MCEC-0530-R56M	0.56	4.50	14.00	22.00
MCEC-0530-R80M	0.82	5.75	12.90	19.70
MCEC-0530-1R0M	1.00	7.60	12.20	16.50
MCEC-0530-1R2M	1.20	9.70	11.00	15.00
MCEC-0530-1R5M	1.50	11.20	10.50	14.00
MCEC-0530-1R8M	1.80	12.70	10.00	12.00
MCEC-0530-2R2M	2.20	14.50	9.50	10.00
MCEC-0530-3R3M	3.30	23.00	8.00	9.50
MCEC-0530-4R7M	4.70	36.00	6.00	8.00

※Note:

- All test data is reference to 25°C ambient.
- Test Condition: 100KHz, 0.1Vrms
- 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 E C = 0530 = 1R0 = M  
① ② ③ ④ ⑤ ⑥

- ① Molding Choke;
- ② Mold Categories:E;
- ③ The outlet position :C为270°

- ④ Dimensions(unit:mm):5.7x5.5x3.3
- ⑤ Inductance Value:1R0=1.0μH;
- ⑥ Tolerance:M=±20%

※ Features

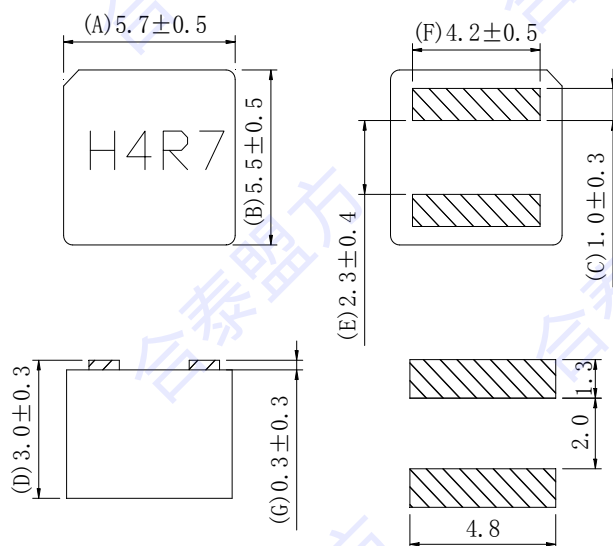
- Compact size using flat wire, and SMD type.
- Low profile:Thickness max 3.3mm
- Low radiation noise by magnetically shielded construction
- High current, Low resistance.
- Capable of corresponding high frequency (1MHz)
- Low loss and low resistance
- 100% lead (Pb) free meet RoHS standards



※ Application

- high efficiency DC/DC converters.
- Single and polyphase buck converters.
- Filter for audio applications.
- Optimized for high current boost applications.
- Laptops,Graphic cards,Motherboards.

※ Dimensions in inches (unit:mm)



Suggested pad layout  
Dimensions are in mm