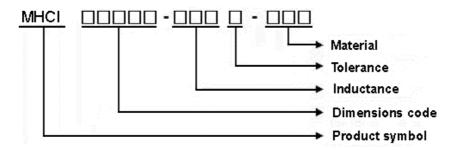


Scope: This specification applies to large current and low loss SMD shielding power inductor.

2 Part Numbering:



3 Rating:

Operating Temperature: $-5.5 \,^{\circ}\text{C} \sim 1.2.5 \,^{\circ}\text{C}$ (Including self - temperature rise)

Storage Temperature: (on tape & reel): -20°C to +40°C; 75% RH max.

4 Marking:



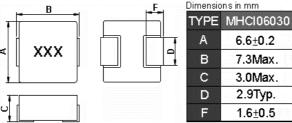
5 Standard Testing Condition

	Unless otherwise specified	In case of doubt
Temperature	Ordinary Temperature(15 to 35℃)	20 to 30℃
Humidity	Ordinary Humidity(25 to 85% RH)	50 to 80 %RH

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6 Configuration and Dimensions:



7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Typ.	Isat(A) Typ.	RDC(mΩ) Max.	Marking
MHCI06030-R10M-R8A	0.1	20	100kHz,0.5V	32.5	60	1.7(1.5yp)	R10
MHCI06030-R15M-R8A	0.15	20	100kHz,0.5V	30	40	2.5(1.9yp)	R15
MHCI06030-R22M-R8A	0.22	20	100kHz,0.5V	23	34	3.0(2.5yp)	R22
MHCI06030-R33M-R8A	0.33	20	100kHz,0.5V	21	25	3.5(3.0typ)	R33
MHCI06030-R36M-R8A	0.36	20	100kHz,0.5V	20	24	3.9(3.3typ)	R36
MHCI06030-R47M-R8A	0.47	20	100kHz,0.5V	18	20	4.1(3.5typ)	R47
MHCI06030-R56M-R8A	0.56	20	100kHz,0.5V	16.5	18	4.5(3.9typ)	R56
MHCI06030-R68M-R8A	0.68	20	100kHz,0.5V	16	17	5.3(4.8yp)	R68
MHCI06030-R82M-R8A	0.82	20	100kHz,0.5V	14	16	6.0(5.4typ)	R82
MHCI06030-1R0M-R8A	1	20	100kHz,0.5V	12	15	7.4(6.7typ)	1R0
MHCI06030-1R2M-R8A	1.2	20	100kHz,0.5V	10	14	10(7.8typ)	1R2
MHCI06030-1R5M-R8A	1.5	20	100kHz,0.5V	10	14	12.1(10.6typ)	1R5
MHCI06030-2R2M-R8A	2.2	20	100kHz,0.5V	8	10	15(13.5typ)	2R2
MHCI06030-3R3M-R8A	3.3	20	100kHz,0.5V	6.5	9.5	22(18.0typ)	3R3
MHCI06030-4R7M-R8A	4.7	20	100kHz,0.5V	5.5	6.5	33(28.0typ)	4R7
MHCI06030-5R6M-R8A	5.6	20	100kHz,0.5V	5.5	6	42(39.0typ)	5R6
MHCI06030-6R8M-R8A	6.8	20	100kHz,0.5V	4.5	6	50(43.9typ)	6R8
MHCI06030-8R2M-R8A	8.2	20	100kHz,0.5V	4.5	6	60(54.0typ)	8R2
MHCI06030-100M-R8A	10	20	100kHz,0.5V	4	5.5	68(62.0typ)	100

Note:

5. Absolute maximum voltage 30 VDC

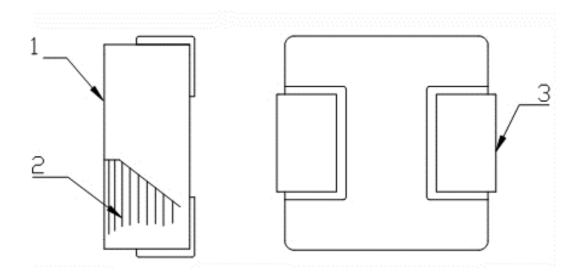
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^{2.}Isat for Inductance drop 30% from its value without current.

^{4.}The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design 125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



8 MHCl06030 Series 8.1 Construction:



8.2 Material List:

No	Part	Material		
1	CORE	Alloy powder		
2	WRE	Copper wire		
-3	TERMINAL	TERMINAL COPPER		

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9 Packaging:

9.1 Packaging -Cover Tape

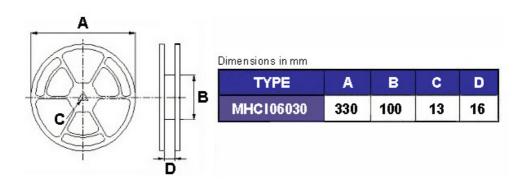
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL	
MHC106030	1000	

9.3 Reel Dimensions

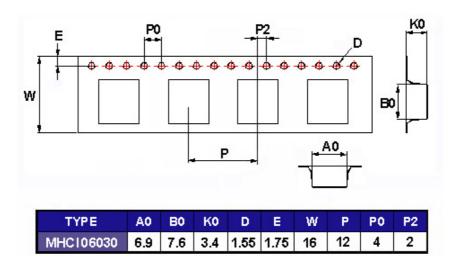


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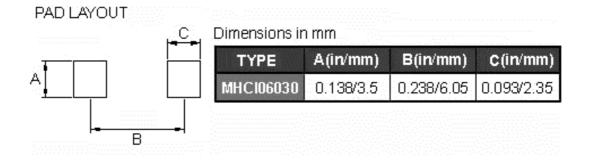


9 Packaging:

9.4 Tape Dimensions in mm



10 Recommended Land Pattern:



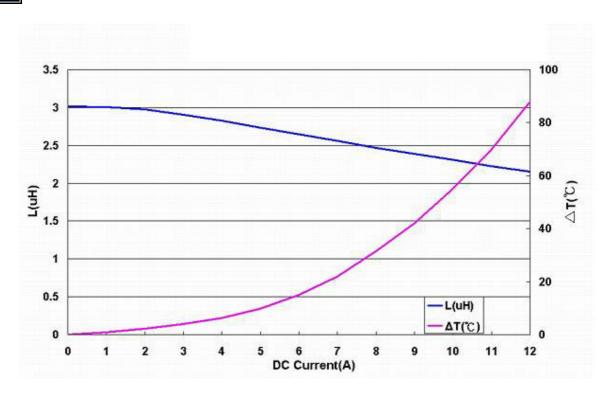
11 Note:

- 1. Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.
- 2. Do not knock nor drop.
- 3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
- 4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)
- 5. The moisture sensitivity level (MSL) of products is classified as level 1.

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12 Graph: MHCl06030-3R3M-R8A



Shanghai Leiditech Electronic Co.,Ltd

Email: sale1@leiditech.com Tel: +86- 021 50828806 Fax: +86- 021 50477059