



RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer:			
Customer P/N:			
Drawing No:		C3X2301	458
Quantity:	X Po	cs. Date:	2023/11/16
P/N :		MHCI04012-R	60M-R8L
	SPECI	FICATION	
	ACCE	PTED BY:	
COMPONENT			
ENGINEER			
ELECTRICAL			
ENGINEER			
MECHANICAL			
ENGINEER			
APPROVED			
REJECTED			
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Drawn by	Cho	ecked by	Approved by
Ryan Tsai		yne Wu	Mark Chung





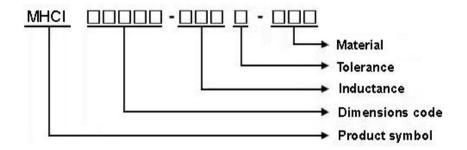
REVISIONS

REV.	Description	Date	APPROVED BY	CHECKED	DRAWN BY
Α	Initial release	2023/11/16	Mark Chung	Wayne Wu	Ryan Tsai





- 1 Scope: This specification applies to Large current and Low Loss SMD Power INDUCTOR
- 2 Part Numbering:

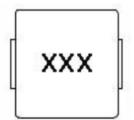


3 Rating:

Operating Temperature: - 55°C ~ 125°C

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

4 Marking:



Marking: R60

Marking color: Black

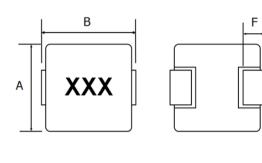
5 Standard Testing Condition

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





6 Configuration and Dimensions:



TYPE	MHCI04012
Α	4.1 ± 0.2
В	4.6 ± 0.2
С	1.0 ± 0.2
D	1.5 ± 0.3
F	1.0 ± 0.5

7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max(Typ)	Isat(A) Max(Typ)	RDC(mΩ) Max(Typ)	Marking
MHCI04012-R60M-R8L	0.6	20	100kHz,0.5V	6.5(7.0)	6.5(7.0)	18.0(16.5)	R60

Note:

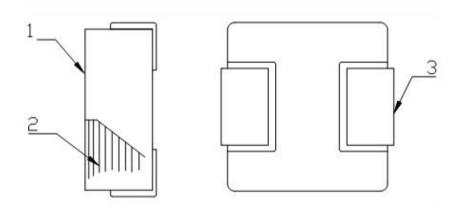
- 2.Isat for Inductance drop 30% from its value without current.
- 4.The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design 125°C under worst case operating conditions. Component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- 5. Absolute maximum voltage 30VDC (Based on test method, it may not the sameunder different application, it is recommended to verify first.)





8 MHCI04012 Series

8.1 Construction:



8.2 Material List:

ITEM	PART DESCRIPTION			
1	CORE	Magnetic Metal Powder		
2	WIRE	Copper wire		
3	TERMINAL	TERMINAL COPPER		

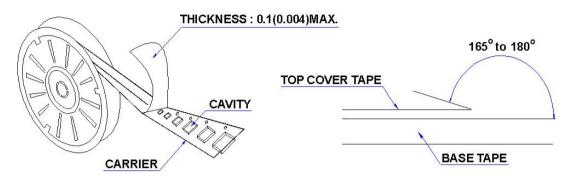




9 PACKAGING

9.1 Packaging -Cover tape

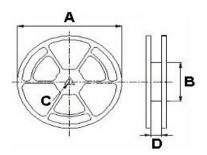
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL
MHCI04012	2000

9.3 Reel Dimensions



Dimensions in mm

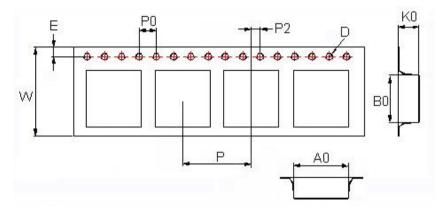
TYPE	Α	В	C	D
MHCI04012	330	100	13	13.4





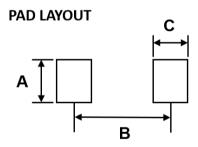
9 PACKAGING

9.4 Tape Dimensions in mm



TYPE	A0	B0	K0	D	Е	W	Р	P0	P2
MHCI04012	4.3	4.9	1.5	1.55	1.75	12	8	4	2

10 Recommended Pattern



Difficusions in film							
TYPE	A(mm)	B(mm)	C(mm)				
MHCI04012	2.5	3.7	1.5				

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.





12 Graph:

