

ISO9001 & ISO14001 & TS16949 CHILISIN ELECTRONICS CORP.

SPECIFICATION FOR APPROVAL

Customer :	超利維				
Customer P/N:					
Drawing No :	TE1-830293				
Quantity:	Х	Pcs.	Date:	2018/03/15	
Chilisin P/N:	MHCB10040-100M-AU				

Automotive Grade Inductor

Halogen Free RoHS Compliant REACH Compliant Lead Free Solders AEC-Q200

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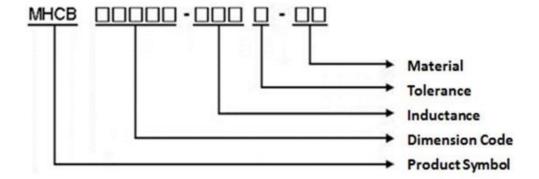
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Drawn by 吳韋邑 **Wayne.Wu** Checked by 吳韋邑 Wayne.Wu Approved by 鍾瑞民 jacky.chung



AEC-Q200

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

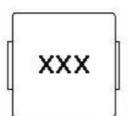


3 Rating:

Operating Temperature: - 40°C ~ 125°C

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

4 Marking:



Ex: MHCB10040-100M-AU

Marking: 100

Marking color : Black

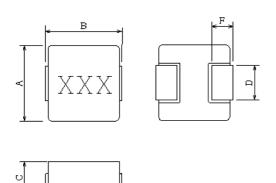
5 Standard Testing Condition

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



AEC-Q200

6 Configuration and Dimensions:



TYPE	MHCB10040
Α	10.1±0.3
В	11.6 Max
C	3.8±0.2
D	3.0±0.5
F	2.5±0.5

7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Typ	Isat(A) Typ	RDC(mΩ) Max(Typ)	Marking
MHCB10040-100M-AU	10	20	100kHz,0.5V	7	10	30(27)	100

Note:

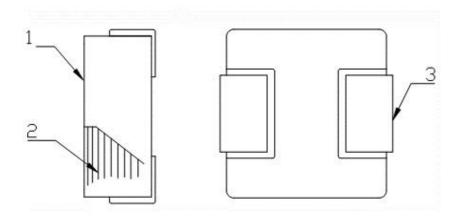
- 1. Operating temperature range -40° C ~125° C
- 2.Isat for Inductance drop 30% from its value without current.
- 3.Irms for a 40 $^{\circ}\mathrm{C}$ temperature rise from 25 $^{\circ}\mathrm{C}$ ambient.
- 4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating 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



AEC-Q200

8 MHCB10040 Series

8.1 Construction:



8.2 Material List:

No	Part	Material
1	COATING+ CORE	CARBONYL IRON POWDERS
2	WRE	COPPER WIRE
3	TERMINAL	TERMINAL COPPER



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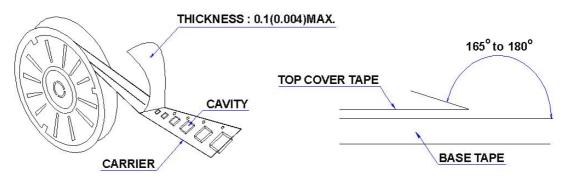
MHCB10040 Series Specification

AEC-Q200



9.1 Packaging -Cover tape

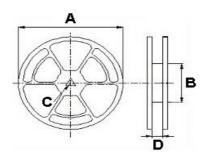
The force for tearing off cover tape is 10 to 130 grams in the arrow direction.



9.2 Packaging Quantity

TYPE	PCS/REEL			
MHCB10040	500			

9.3 Reel Dimensions



Dimensions in mm

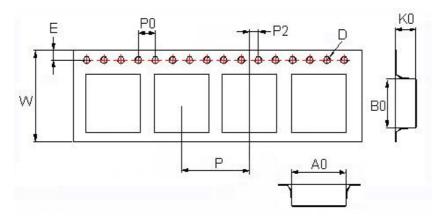
TYPE	Α	В	С	D
MHCB10040	330	100	13	24.4



AEC-Q200

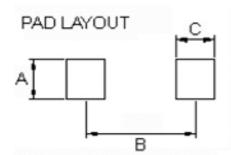
9 PACKAGING

9.4 Tape Dimensions in mm



TYPE	A0	В0	K0	D	Е	W	Р	P0	P2
MHCB10040	10.6	11.7	4.25	1.55	1.75	24	16	4	2

10 Recommended Pattern



Dimensions in mm

TYPE	A(mm) B(mm)		C(mm)		
MHCB10040	4.0	9.5	3.5		

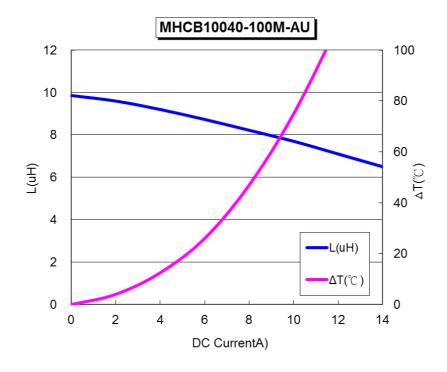
11 Note:

- 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.



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