

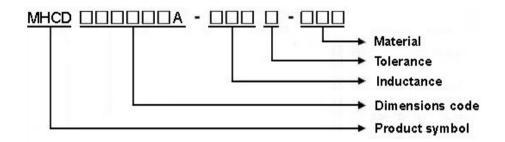
Halogen Free & RoHs Compliance

SPECIFICATION FOR APPROVAL

CUSTOMER:				
CUSTOMER P/N:				
OUR DWG No:				
QUANTITY:	0	Pcs.	DATE :	2014/06/09
·		_		
ITEM:			1201010A-	1R0M-A8L
		ECIFICA		
COMPONENT	A	CCEPTE	<u> JRI:</u>	
ENGINEER				
ELECTRICAL				
ENGINEER	<u> </u>			
MECHANICAL				
ENGINEER				
APPROVED				
REJECTED				
奇力新電子股份有限公司 Chilisin Electronic sCorp No. 29, Alley 301, Tehhsin Rd. Hukou,Hsinchu 303, Taiwan TEL: +886-3- 599-2646 FAX: +886-3- 599-9176 E-mail: sales@chilisin.com.tw http://www.chilisin.com.tw	,	Chilli No. 7 Area Guar TEL FAX		Dongguan) Co., Ltd. Yuliangwei Administration Dongguan City, -0251~3 3-0232
奇力新電子(河南)有限公 Chilisin Electronics (Henan) Co XiuWu Xian, industry gathering JiaoZuo, Henan China Postal Code:454350 TEL:+86-391-717-0682 FAX:+86-391-717-0666	o., Ltd.	Chilis No.1 Suzh Post TEL:	,	Suzhou) Co., Ltd. Rd., Suzhou New District, 350
DRAWN BY 張鈺雯 chang.yuwen		CHECKED 溫美玲 1		APPROVED BY 張鈺雯 chang.yuwen

MHCD201610A Series Specification

- 1 Scope: This specification applies to Alloy Molding power inductors
- 2 Part Numbering: Product Identification



3 Rating:

Operating Temperature: $-4~0~\mathrm{C}\!\sim\!1~2~5~\mathrm{C}$ (Including self - temperature rise)

Storage Temperature: $-4~0~\%\sim1~2~5~\%$ (after PCB)

-5 $^{\circ}$ $^{\circ}$ $^{\circ}$ 3 5 $^{\circ}$ 7, Humidity 4 5 $^{\circ}$ $^{\circ}$ 8 5 $^{\circ}$ 6 (before PCB)

4 Marking:

No Marking

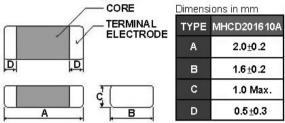
5 Standard Testing Condition

	Unless otherwise specified	In case of doubt	
Temperature	Ordinary Temperature(15 to 35℃)	20±2 ℃	
Humidity	Ordinary Humidity(25 to 85% RH)	60 to 70 % RH	



MHCD201610A Series Specification

6 Configuration and Dimensions:



7 ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (uH)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(mΩ) Max.(Typ)	Tolerance (±%)	
MHCD201610A-1R0M-A8L	1	2MHz,0.2V	2.7(3.4)	3.0(3.8)	62(53)	20	

NOTE:

^{1.}Operating temperature range $-4~0~{\rm C}\!\sim\!1~2~5~{\rm C}$ (Including self - temperature rise)

^{2.}Irms DC current (A) that will cause an approximate ΔT of 40°C.

^{3.}Isat DC current (A) that will cause Lo to drop approximately 30%

^{4.}All test data is referenced to 25 $^{\circ}\mathrm{C}$ ambient

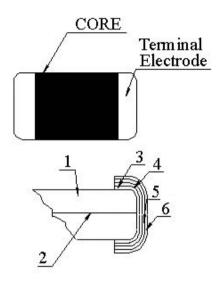


CHILISIN FLECTRONICS CORP.

MHCD201610A Series Specification

8 MHCD201610A Series

8.1 Construction:



8.2 Material List:

NO	Part	Description		
1	Core	Metal Power		
2	Wire	Copper wire		
3	Sputter/Plating	Cu		
4	Silver Electrode	Ag		
5	Plating	Ni		
6	Plating	Sn		

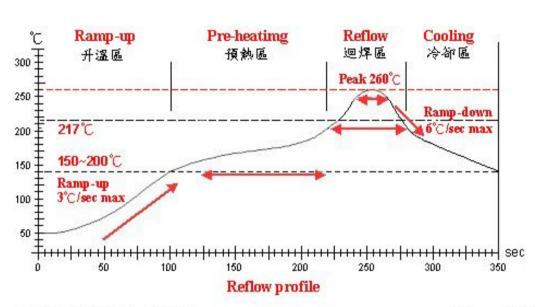


MHCD201610A Series Specification

1	echanical Performance	1 6 15 11			
	Item	Specification		Test Method	
-1-1	Flexure Strength	The forces applied on the right conditions must not damage the terminal electrode and the ferrite	Test device shall be soldered on the substrate Substrate Dimension: 100x40x1.6mm Deflection: 2.0mm Keeping Time: 30sec		
-1-2	Vibration		Oscilla Amplit	levice shall be soldered on the substrate ation Frequency: 10 to 55 to 10Hz for 1min tude: 1.5mm 2hrs for each axis (X, Y & Z), total 6hrs	
-1-3	Resistance to Soldering Heat	Appearance: No damage More than 75% of the terminal electrode should be covered with solder. Inductance: within ±20% of initial value	Pre-he Solder Solder	eating: 150°C, 1min r Composition: Sn/Ag3.0/Cu0.5(Pb-Free) r Temperature: 260±5°C rsion Time: 10±1sec	
-1-4	Solder ability	The electrodes shall be at least 95% covered with new solder coating	Solder Solder	eating: 150°C, 1min r Composition: Sn/Ag3.0/Cu0.5(Pb-Free) r Temperature: 245±5°C rsion Time: 4±1sec	
	Terminal Strength Test	No split termination Chip F Mounting Pad	then a Force	evice shall be soldered on the substrate, // ipply a force in the direction of the arrow. // : 5N ing Time: 10±1sec	
	nvironmental Performance			A\	
No	ltem	Specification		Test Method 🕍 //	
-2-1	Temperature Cycle	Appearance: No damage Inductance:within±20% of initial value	One constant	ycle: Temperature (°C)	
				25±2 2 100cycles ured after exposure in the room condition for 24h	
-2-2	Humidity Resistance		Temperature: 60±2°C Relative Humidity: 90 ~ 95% / Time: 500hrs Measured after exposure in the room condition for 12hr		
-2-3	High Temperature Resistance		Relativ	erature: $85\pm3\%$ ve Humidity: 0% / Time: 500 hrs ured after exposure in the room condition for 12h	
	Low	1	Temperature: -40±3°C Relative Humidity: 0% / Time: 500hrs Measured after exposure in the room condition for 12hr		



MHCD201610A Series Specification



Lead-Free(LF) 標準溫度分析範圍

Refer to J-STD-020C

管制項目 Item.	~ 31 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		迴焊區 Reflow	Peak Temp	冷卻區 Cooling
溫度範圍 Temp.scope	R.T. ~150°℃	150°C ~ 200°C	217℃	260±5°⊂	Peak Temp. ~ 150°C
標準時間 Time spec.	-550	60 ~ 180 sec	60 ~ 150 sec	20 ~ 40 sec	-
實際時間 Time result	_	75 ~ 100 sec	90 ~ 120 sec	20 ~ 35 sec	()

NOTE:

- 1. Re-flow possible times: within 2 times
- 2. Nitrogen adopted is recommended while in re-flow

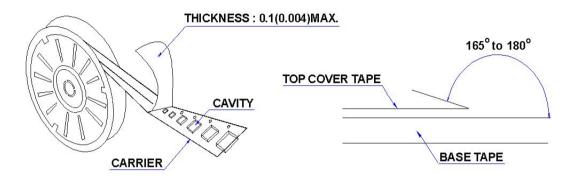


MHCD201610A Series Specification

11 PACKAGING

11.1 Packaging -Cover tape

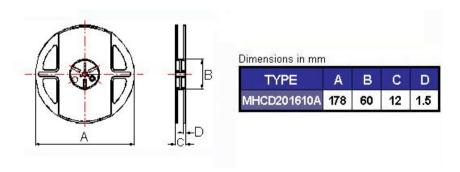
The force for tearing off cover tape is 10 to 100 grams in the arrow direction.



11.2 Packaging Quantity

TYPE	BULK	PCS/REEL
MHCD201610A	\	3000

11.3 Reel Dimensions

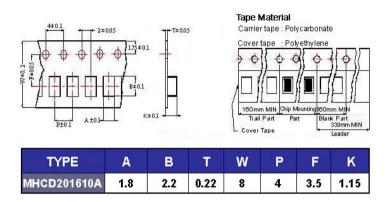




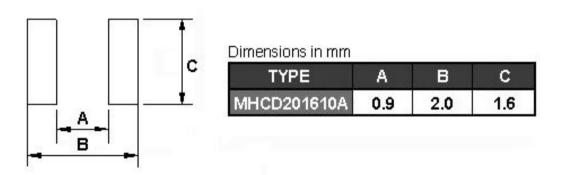
MHCD201610A Series Specification

11 PACKAGING

11.4 Tape Dimensions in mm



12 Recommended Pattern



13 Note:

- 1. Please make sure that your product is 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)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors category:

Click to view products by Chilisin manufacturer:

Other Similar products are found below:

MLZ1608M6R8WTD25 MLZ1608N6R8LT000 MLZ1608N3R3LTD25 MLZ1608N3R3LTD00 MLZ1608N150LT000 MLZ1608N150WTD00 MLZ1608M150WTD00 MLZ1608M1SWTD00 MLZ1608M1SWTD00 MLZ1608N1R5WTD00 MLZ1608N1R5WTD00 MLZ1608N1R5WTD00 MLZ1608N1R5WTD00 B82432C1333K000 PCMB053T-1R0MS PCMB053T-1R5MS PCMB104T-1R5MS CR32NP-100KC CR32NP-151KC CR32NP-180KC CR32NP-181KC CR32NP-180KC CR32NP-181KC CR32NP-390KC CR32NP-390KC CR32NP-389MC CR32NP-680KC CR32NP-820KC CR32NP-8R2MC CR43NP-390KC CR43NP-560KC CR43NP-680KC CR54NP-181KC CR54NP-470LC CR54NP-820KC CR54NP-8R5MC MGDQ4-00004-P MGDU1-00016-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53630NL PE-53824SNLT PE-62892NL PE-92100NL PG0434.801NLT PG0936.113NLT PM06-2N7 PM06-39NJ HC2LP-R47-R HC3-2R2-R HC8-1R2-R