

ISO9001 ISO14001 IATF16949 CHILISIN ELECTRONICS CORP. RoHS & Halogen Free & REACH Compliance.

SPECIFICATION FOR APPROVAL

Customer :			DIGI-KE	Y
Customer P/N:				
Drawing No:			CE1-0416	67
Quantity :	0	Pcs.	Date :	2020/04/16
Chilisin P/N:		EHEI2		0M-Q8DG

	SPECIFICATION ACCEPTED BY:
COMPONENT	
ENGINEER	
ELECTRICAL	
ENGINEER	
MECHANICAL	
ENGINEER	
APPROVED	
REJECTED	

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EHEI201608A Series Specification





EHEI201608A Series Specification

6 Configuration and Dimensions:



TYPE	EHEI201608A
А	2.0±0.2
В	1.6±0.2
С	0.8Max
D	0.5±0.3

7 Electrical Characteristics:

Part No.	Inductance (uH)	Tolerance (±%)	Test Freq.	Irms(A) Max.(Typ)	Isat(A) Max.(Typ)	RDC(mΩ) Max.(Typ)	
EHEI201608A-1R0M-Q8DG	1.00	20	2MHz,0.2V	3.7(3.9)	3.8(4.1)	48(41)	

NOTE:

1.Operating temperature range - 4 0 °C ~ 1 2 5 °C(Including self - temperature rise)

- 2.Isat for Inductance drop 30% from its value without current.
- 3.1rms for a 40°C temperature rise from 25°C ambient.
- 4.All test data is referenced to 25°C ambient

5.Absolute maximum voltage 20VDC

6. Rated current: Isat or Irms, whichever is smaller



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8 EHEI201608A Series 8.1 Construction:



8.2 Material List:

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



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	Reliability of moldin	g power inductors			
1-1.M No	echanical Performance Item	Specification		Test Method	
	Flexure Strength	The forces applied on the right conditions must not damage the terminal electrode and the metal body	Substrate Dime	all be soldered on the subst ension: 100x40x1.6mm mm	
1-1-2	Vibration	Appearance:No damage (for microscope of CASTOR MZ-45 20X Inductance change shall be within ±20%	Oscillation Free mplitude: 1.5		r 1min
1-1-3	Resistance to Soldering Heat		Pre-heating: 18 Solder Compos	50℃, 1min sition: Sn/Ag3.0/Cu0.5(Pb-F rature: 260±5℃	
1-1-4	Solder ability	The electrodes shall be at least 95% covered with new solder coating	-	sition: Sn/Ag3.0/Cu0.5(Pb-F rature: 245±5°C	ree)
	Terminal Strength Test	No split termination Chip F Mounting Pad		all be soldered on the subst rce in the direction of the ar 10±1sec	•
	nvironmental Performance	-			
No	Item	Specification		Test Method	
1-2-1	Temperature Cycle	Appearance: No damage Inductance:within±20% of initial value	One cycle: Step 1 2 3 4 Total: 100cycle	Temperature (°C) -40±3 25±2 125±3 25±2 es r exposure in the room conc	Time (min) 30 3 30 3 30 3
1-2-2	Humidity Resistance		emperature: 6 Relative Humic		S
1-2-3	High Temperature Resistance		emperature: 8 Relative Humic	-	
1-2-4	Low Temperature Resistance		emperature: - Relative Humic		



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remp.scope				-
標準時間 Time spec.	 60 ~ 180 sec	60 ~ 150sec	20 ~ 40 sec	8,
實際時間 Time result	 75 ~ 100 sec	90 ~ 120 <i>s</i> ec	20 ~ 35 sec	·

NOTE :

1. Re-flow possible times : within 2 times

2. Nitrogen adopted is recommended while in re-flow



EHEI201608A Series Specification

10 Packaging:

10.1 Packaging -Cover Tape

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



10.2 Packaging Quantity

TYPE	PCS/REEL
EHEI201608A	3000

10.3 Reel Dimensions



Dimensions in m	m			
TYPE	А	В	С	D
EHEI201608A	178	60	12	1.5



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10 Packaging:

10.4 Tape Dimensions in mm



Tape Material Carrier tape : Polycarbonate



TYPE	А	В	Т	W	Р	F	K
EHEI201608A	1.8	2.2	0.22	8	4	3.5	1.05

11 Recommended Land Pattern:



Dimensions in mm

TYPE	А	В	С
EHEI201608A	0.7	2.3	1.8

12 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.After manufacturing process, there might be slight irregular shape on the edge of the products, and it's a normal phenomenon that can be neglectable.
- 6. The moisture sensitivity level (MSL) of products is classified as level 1.



EHEI201608A Series Specification



DC Current(A)