

文件编号HXA-L13-04(01)发行日期2015年12月12日

承认规格书

种类:功率电感

系列号: <u>HXB1807N-Series</u>

客户料号:______

李	客户承认栏
承认日期	年 月 日

(贵司承认后请签署一份返回华信安电子,谢谢!)

厦门华信安电子科技有限公司技术质量部

承 认	确认	作成
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Power Inductor

HXB1807N-SERIES

	ECN HISTORY LIST						
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN		
1.0	15/12/12	新 發 行	龙梅	梁峰	王亮		
備							
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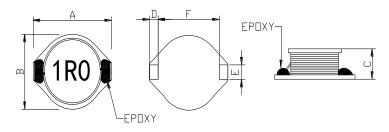
Power Inductor

HXB1807N-SERIES

1. Features

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

2. Dimension

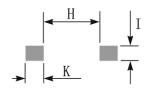


Series	A(mm)	B(mm)	C(mm)	D(mm	E(mm)	F(mm)
HXB1807N	18.5MAX	15.5MAX	7.5MAX	2.54	2.54	12.7

Halogen-free



Recommendend Land pattern



H(mm)	l(mm)	K(mm)
12.45	2.79	2.92

3. Part Numbering

HXBA
B
C
D
E

A: Series

B: Dimension

C: Control S/N

D: Inductance 2R2=2.2uHE: Inductance Tolerance $M=\pm20\%$;

4. Specification

ISND Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) Max	l sat (A)	I rms (A)
HXB1807N-2R2M	2.2	±20%	0.25V100K	0.014	16	7.1
HXB1807N-3R3M	3.3	±20%	0.25V100K	0.018	15	6.2
HXB1807N-4R7M	4.7	±20%	0.25V100K	0.020	12	5.8
HXB1807N-6R8M	6.8	±20%	0.25V100K	0.022	11	4.8
HXB1807N-100M	10	±20%	0.25V100K	0.031	10	4.2
HXB1807N-150M	15	±20%	0.25V100K	0.036	8	4.0
HXB1807N-220M	22	±20%	0.25V100K	0.047	7	3.5
HXB1807N-330M	33	±20%	0.25V100K	0.066	5.5	3.0
HXB1807N-470M	47	±20%	0.25V100K	0.086	4.5	2.6
HXB1807N-680M	68	±20%	0.25V100K	0.130	3.5	2.3
HXB1807N-101M	100	±20%	0.25V100K	0.190	3	1.8
HXB1807N-151M	150	±20%	0.25V100K	0.250	2.6	1.5
HXB1807N-221M	220	±20%	0.25V100K	0.380	2.4	1.2
HXB1807N-331M	330	±20%	0.25V100K	0.560	1.9	1.0
HXB1807N-471M	470	±20%	0.25V100K	0.850	1.4	0.8

Note:

Irms: Based on temperature rise (AT: 40°C typ.)

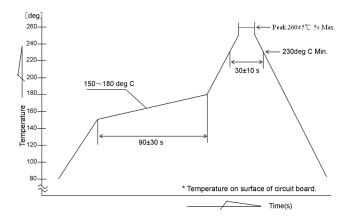
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5. Reliability and Test Condition

Item	Performance	Test Method and Remarks
Operating Temperature	- 40 ~ +125°C.	Including self-generated heat
Storage Temperature	-40 ~ +85℃. - 5 to 40℃ for the product with taping.	
Rated current		
Inductance (L)	Within the specified tolerance	LCR Meter: HP 4285A or equivalent, 100kHz, 0.25V
DC Resistance		DC Ohmmeter: HIOKI3227 or equivalent
Temperature characteristics		Measurement of inductance shall be taken at temperature rang within–40°C to +85°C. With reference to inductance value at+20 °C,change rate shall be calculated. Measurement of inductance shall be taken at temperature rang within–40°C to +125°C. With reference to inductance value at+20 °C,change rate shall be calculated.
Resistance to flexure substrate	No damage.	The test samples shall be soldered to the testing board by the reflow. As illustrated below, apply force in the direction of the arrow indicating until deflection of the test board reaches to 2mm. Proceed Part Plant Plan
Adhesion of Terminal electrode	Shall not come off PC board.	The test samples shall be soldered to the testing board and by the reflow. 10 N, 5 s Applied force: 10 N to X and Y directions. Duration: 5s Solder cream thickness: 0.15
Resistance to Vibration Inductance change: Within±10% No abnormality observed in appearance.		The test samples shall be soldered to the test board by the reflow. Then it shall be submitted to below test conditions. Frequency: 10-55Hz Total Amplitude: 1.5mm (May not exceed acceleration 196m/S2) Sweeping Method:10Hz to 55Hz to 10Hz for 1min. Time: 2 hours each in X,Y, and Z Direction. Recovery: At least 2hrs of recovery under the standard condition after the test, followed by the measurement within 48hrs.
Solderability At least 90% of surface of terminal electrode is covered		The test samples shall be dipped in flux, and then immersed in molten solder as shown in below. Flux: methanol solution containing rosin 25% Solder temperature: 245±5°C Time: 5±1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.

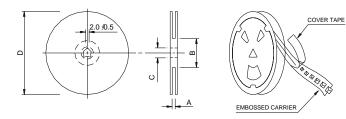
ISNU						
Item	Performance		Test Method and R	emarks		
Resistance to soldering		for 40 second seconds,2 tim Test board thi	the test sample shall be exposed to reflow oven at 230±5°C or 40 seconds, with peak temperature at 260±5°C for 5 seconds,2 times. est board thickness: 1.0mm est board material: glass epoxy-resin			
		reflow. The test samp for specified to sequence.	oles shall be soldered to oles shall be placed at time by step 1 to step 4 ure cycles shall be repo	specified tempera as shown below	ature in	
Thermal shock		Phase	Temperature(で)	Time(min.)		
		1	-40±3℃	30±3	1	
		2	RoomTemp	Within 3	1	
		3	85±2°C	30±3	1	
		4	RoomTemp	Within 3		
Damp heat life test	Inductance change: Within±10% No abnormality observed in appearance.	Test Method and Remarks The test samples shall be soldered to the test board by the reflow. The test samples shall be placed in thermostatic oven strangerified temperature and humidity as shown in below. Temperature: 60±2°C Humidity: 90–95°% RH Time: 500+24/-0 hrs The test samples shall be soldered to the test board by reflow. The test samples shall be placed in thermostatic oven strangerified temperature and humidity and applied the rate.			n set at w.	
Loading under damp heat life test		current contin Temperature: Humidity: 90~	uously as shown in be 60±2°C 95%RH nt: Rated current		aleu	
Low temperature life test		The test samples shall be soldered to the test board reflow. After that, the test samples shall be placed at test co as shown in below. Temperature:-40±2°C Time:500+24/-0 hrs			, l	
Loading at high temperature life test		reflow. Temperature:	nt: Rated current	o the test board b	by the	

6. Soldering



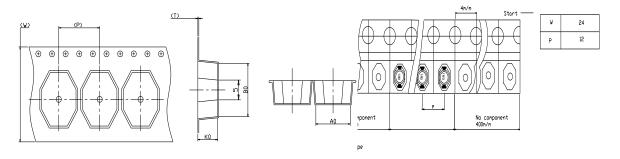
7. Packaging Information

(1) Reel Dimension



Type A(mm)		B(mm)	C(mm)	D(mm)	
HXB1807N	32.4±0.2	100±4.0	13.2±0.2	330±2.0	

(2) Tape Dimension



Туре	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
HXB1807N	15.25±0.1	18.55±0.1	7.4±0.1	20.0±0.1	32.0±0.3	0.4±0.05

(3) Packaging Quantity

Туре	Chip / Reel
HXB1807N	250

Application Notice

·Storage Conditions

- To maintain the solderability of terminal electrodes:
- 1. ISND products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^{\circ}\text{C}\,$ and 60% RH.
- 3. Recommended products should be used within 12 months form the time of delivery.

 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

·Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

单击下面可查看定价,库存,交付和生命周期等信息

>>ISND(华信安)