

文件编号HXA-L53-01(01)发行日期2019年12月8日

承认规格书

种类:功率电感

系列号: HXBF12575N-151M

客户料号:

名	子户承 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

HXBF12575N-151M

	ECN HISTORY LIST					
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN	
1.0	15/12/08	新 發 行	龙梅	梁峰	王亮	
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ISND P2

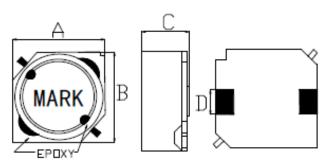
Power Inductor

HXBF12575N-151M

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)
HXBF12575N	12.5±0.3	12.5±0.3	7.5±0.3	3.0TYP	8.5TYP	2.0TYP

3. Part Numbering

HXBF	12575	N	-	151	M
Α	В	С		D	Е

A: Series

B: Dimension

C: Control S/N

D: Inductance 1R0=1.0uH

E: Inductance Tolerance $M=\pm 20\%$; $Y=\pm 30\%$

4. Specification

ISND	Inductance	Tolerance	Test Frequency	DCR	l sat	l rms
Part Number	(uH)	(%)	(Hz)	(Ω) Max	(A)	(A)
HXBF12575N -151M	15	±20%	1KHz/1V	0.175	1.5	1.6

Note:

Irms: Based on temperature rise $(\triangle T: 40^{\circ}C \text{ typ.})$





Recommendend Land pattern

_ISND P3

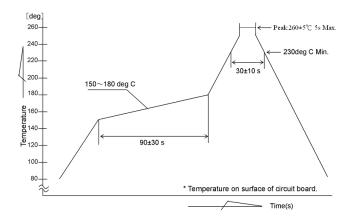
5. Reliability and Test Condition

ltem	Performance	Test Method and Remarks
Operating Temperature	- 40 ~ +125℃.	Including self-generated heat
Storage Temperature	-40 ~ +85°C. - 5 to 40°C 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	Inductance change: Within±20%	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. Process Peace Pea
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 by new solder.	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.

_ISND P4

Item	Performance		Test Method and R	emarks	
Resistance to soldering		The test sample shall be exposed to reflow oven at 230±5°C for 40 seconds, with peak temperature at 260±5°C for 5 seconds,2 times. Test board thickness: 1.0mm Test 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 rep	specified tempera as shown below	ature in
Thermal shock		Phase	Temperature(℃)	Time(min.)	
		1	-40±3℃	30±3	
		2	RoomTemp	Within 3	
		3	85±2℃	30±3	
		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 set at specified temperature and humidity as shown in below. Temperature: 60±2°C Humidity: 90~95%RH Time: 500+24/-0 hrs			
Loading under damp heat life test		reflow. The test sample specified temporare continuation Temperature: Humidity: 90-	95%RH nt: Rated current	thermostatic oven	set at
Low temperature life test		reflow.	-40±2°C		
Loading at high temperature life test		reflow. Temperature:	nt: Rated current	o the test board b	y the

6. Soldering

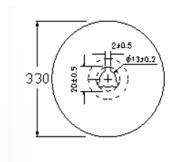


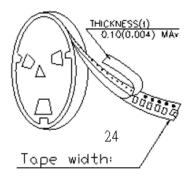
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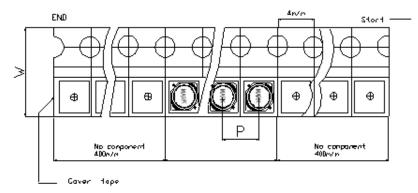
7. Packaging Information

(1) Reel Dimension





(2) Tape Dimension



(3) Packaging Quantity.0

Туре	Chip / Reel
HXBF12575N	500

Application Notice

·Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. ISND products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 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)