

то :			文件编号	÷ H	XA-L31-24(01)
10 ·			发行日期	月 201	5年11月15日
	承	认规格	书		
	系 列 号: <u>-</u>	Power Induc HXNR3012B-Se	ries		
	客	、户 承 认 档	2		
承 ì	人日期	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

HXNR3012B-SERIES

	ECN HISTORY LIST						
REV	DATE	DESCRIPTION	APPROVED	CHECKED	DRAWN		
1.0	15/11/15	新發行	龙梅	梁峰	王亮		
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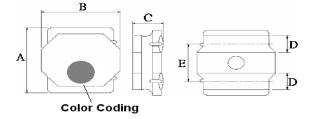
Power Inductor

HXNR3012B-SERIES

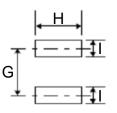
1. Features

- 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)	G(mm)	H(mm)	l(mm)
HXNR3012B	3.0±0.1	3.0±0.1	1.2 max.	0.9±0.2	1.9±0.2	2.2 ref.	2.7 ref.	0.8 ref.
								Linita: mm

Units: mm

3. Part Numbering

3012	B	-	2R2	Μ
В	С		D	Е
	2R2=	=2.2u⊢	ł	
lerance	M=±	20%;	Y=±30%	
	В	B C	B C 2R2=2.2u	B C D

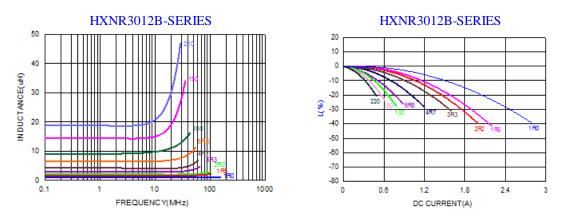
4. Specification

ISND Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHz) min.	DCR (Ω) ±20%	l sat (A)	l rms (A)	Color Coding
HXNR3012B-1R0Y	1.0	±30%	1V100K	111	0.048	2.20	1.71	Silver
HXNR3012B-1R5Y	1.5	±30%	1V100K	95	0.055	1.70	1.60	Silver
HXNR3012B-2R2M	2.2	±20%	1V100K	78	0.075	1.50	1.37	Silver
HXNR3012B-3R3M	3.3	±20%	1V100K	61	0.100	1.20	1.21	Silver
HXNR3012B-4R7M	4.7	±20%	1V100K	50	0.130	1.00	1.06	Silver
HXNR3012B-6R8M	6.8	±20%	1V100K	43	0.190	0.85	0.89	Silver
HXNR3012B-100M	10	±20%	1V100K	32	0.270	0.73	0.72	Silver
HXNR3012B-150M	15	±20%	1V100K	26	0.450	0.53	0.57	Silver
HXNR3012B-220M	22	±20%	1V100K	22	0.630	0.50	0.50	Silver

Note:

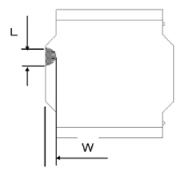
 $\mathsf{Isat}:\mathsf{Based} \text{ on inductance change } (\ (\ \ L/L0: \leq -30\%) \ @ \text{ ambient temp. } 25^\circ \! \mathbb{C}$

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



Core chipping

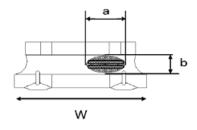
The appearance standard of the chipping size in top side, of bottom side ferrite core is following dimension.



Туре	L	W
HXNR3012B	0.6mm Max.	0.6mm Max.

Void appearance tolerance Limit

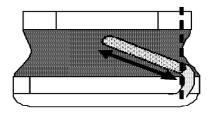
Size of voids occurring to coating resin is specified below.



Exposed wire tolerance limit of coating resin part on product side. Size of exposed wire occurring to coating resin is specified below. 1. Width direction (dimension a): Acceptable when $a \leq w/2$

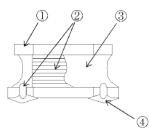
- Nonconforming when a > w/22. Length direction (dimension b): Dimension b is not specified.
- When total area of exposed wire occurring to each sides is not greater than 50% of coating resin area, that is acceptable.

External appearance criterion for exposed wire Exposed end of the winding wire at the secondary side should be 2mm and below.



P3

5. Material List



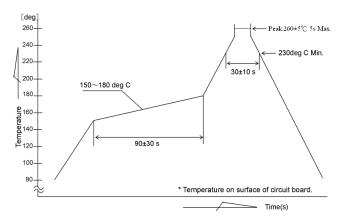
No.	ltem	Material
1	Core	Ni-Zn ferrite
2	Wire	Copper Wire
3	Coating	Ероху
4	Solder	Lead free

6. Reliability and Test Condition

ltem	Performance	Test Condition		
Operating Temperature	- 25 ~ +120°C.	Including self-generated heat		
Storage Temperature	- 40 ~ +85 $^\circ\!\!\mathbb{C}$. - 5 to 40 $^\circ\!\!\mathbb{C}$ for the product with taping.			
Rated current				
Inductance (L)	Within the specified tolerance	LCR Meter: HP 4285A or equivalent, 100kHz, 1V		
DC Resistance		DC Ohmmeter: HIOKI3227 or equivalent		
Temperature characteristics	Inductance change:Within±20%	Measurement of inductance shall be taken at temperature rang within -25° to $+85^{\circ}$. With reference to inductance value at+20 °C, change rate shall be calculated. Measurement of inductance shall be taken at temperature rang within -40° to $+125^{\circ}$. 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. Proved Read Proved P		
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 : 0.10		
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: $245\pm5^{\circ}$ C Time: 5 ± 1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.		
Resistance to soldering	Inductance change [:] Within±10% No abnormality observed in appearance.	The test sample shall be exposed to reflow oven at $230\pm5^{\circ}$ C for 40 seconds, with peak temperature at $260\pm5^{\circ}$ C for 5 seconds,2 times. Test board thickness: 1.0mm Test board material: glass epoxy-resin		

Item	Performance		Test Conditi	on	
Thermal shock		reflow. The test samp for specified to sequence.	bles shall be soldered to bles shall be placed at ime by step 1 to step 4 ure cycles shall be rep Temperature(C) -40±3°C	specified temperation as shown below	ature in
		2 3 4	Room Temp 85±2℃ Room Temp	Within 3 30±3 Within 3	-
Damp heat life test		soldered to th The test samp	-95%RH	low. thermostatic over	n set at
Loading under damp heat life test	Inductance change : Within±10% No abnormality observed in appearance.	reflow. The test samp specified temp current contin Temperature: Humidity: 90~	·95%RH nt: Rated current	thermostatic over and applied the r	n set at
Low temperature life test		reflow.	-40±2℃		
Loading at high temperature life test		reflow. Temperature:	nt: Rated current	to the test board I	by the

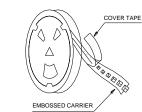
7. Soldering



8. Packaging Information

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(1) Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
HXNR3012B	10±1.5	60±1.0	13±0.5	180±0.5

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А

(3) Packaging Quantity

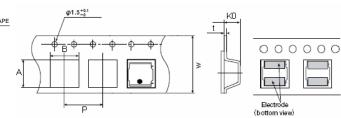
Туре	Chip / Reel
HXNR3012B	2000

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 $^\circ$ 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.

(2) Tape Dimension



Туре	A(mm)	B(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
HXNR3012B	3.2±0.1	3.2±0.1	1.6±0.1	4.0±0.1	8.0±0.2	0.30±0.05



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)