	<spe< th=""><th>ECIFICAT</th><th>ION></th><th></th></spe<>	ECIFICAT	ION>	
				DIQ-SPE-137(00) g.11,2022
To:				
	CUSTOM	ER'S PRODUCT NA	ME	
		DDUCT NAME: 608N-SERIES		
RECEIPT CONFIRM	MATION			
UNCOND	DITIONAL CONSENT		CONDITIONAL CO	DNSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.11,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

CAUTION WHEN HANDLING

Before use the products, please read this specification.

CAUTION FOR SAFETY USING

When use the products, be careful to mentioned below for safety using.

CAUTION

*The product should be used within 12 monthes.

Focus on the storage conditions.

Solderability may become weak if it exceeds the period.

*Do not use and store the product in condition of gas corrosion

(Salt, Acid, Alkaline).

*The products must be preheated before soldering.

The operating temperature including self-generated heat must be within '- $40 \sim +125$ °C.

*Rework by soldering iron:Please keep the mentioned conditions in this specification.

*In case of insert P.C. Board on chassis, do not add mechanical stress to the product.

*Be careful to arrange of non-magnetic field type inductors.

The error may be caused by magnetic field coupling.

*In case handle the products, please use wrist strap for ground static discharge on human body.

The product keeps away from magnet or magnetized things.

*Do not use the product beyond the mentioned conditions in this specification.

*About an application

The products listed on this specification sheet are intended for use in general electronic equipment

(AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

*The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.

1)Aerospace/Aviation equipment
2)Military equipment
3)Seabed equipment
4)Safety equipment
5)Medical equipment
9)Other applications that are not

considered general-purpose applications

If you intend to use the products in the following applications, please contact our sales

Transportation equipment (cars, electric trains, ships, etc.), Public information-processing equipment, Electric heating apparatus / burning equipment, Disaster prevention/crime prevention equipment

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

Xiamen ASDI Electronics Co.,Ltd.

DWG.No. ASDIQ-SPE-137(00)

ISSUE

CUSTOMER ASDI PART No.		CUSTOMER'S DWG NO.
	SPUN1608N-SERIES	

1.INDEX

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3.Part Numbering	Please see (3)	3/7
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2.Manufacturing Location

China

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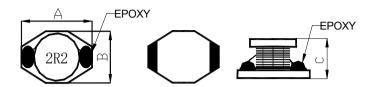
(1)Features

1. This specification applies Low Profile Power Inductors. 2.100% Lead(Pb) & Halogen-Free and RoHS compliant.

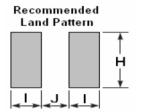




(2)Dimensions



Series	A(mm)	B(mm)	C(mm)	
SPUN1608N	6.8MAX	4.5MAX	3.0MAX	



l(mm)	H(mm)	J(mm)
1.00	4.40	1.00

(3)Part Numbering

 SPUN
 1608
 N
 1R0
 M

 A
 B
 C
 D
 E

A: Series

B: Dimension

C: Type

D: Inductance

1R0=1.0µH M=±20%;

E: Inductance Tolerance N

(4)Electrical Specifications

Table 1

ASDI Part Number	Inductance (μH)	Tolerance (%)	Test Frequency	DCR (Ω) Max	I sat (A)	I rms (A)
SPUN1608N-1R0M	1.0	±20%	100kHz/0.25V	0.050	2.9	2.75
SPUN1608N-1R5M	1.5	±20%	100kHz/0.25V	0.060	2.6	2.45
SPUN1608N-2R2M	2.2	±20%	100kHz/0.25V	0.070	2.3	2.13
SPUN1608N-3R3M	3.3	±20%	100kHz/0.25V	0.080	2	1.90
SPUN1608N-4R7M	4.7	±20%	100kHz/0.25V	0.090	1.5	1.43
SPUN1608N-6R8M	6.8	±20%	100kHz/0.25V	0.130	1.2	1.15
SPUN1608N-100M	10	±20%	100kHz/0.25V	0.160	1.1	1.05
SPUN1608N-150M	15	±20%	100kHz/0.25V	0.230	0.9	0.85
SPUN1608N-220M	22	±20%	100kHz/0.25V	0.360	0.7	0.64
SPUN1608N-330M	33	±20%	100kHz/0.25V	0.510	0.58	0.55
SPUN1608N-470M	47	±20%	100kHz/0.25V	0.640	0.5	0.50
SPUN1608N-680M	68	±20%	100kHz/0.25V	0.860	0.4	0.39
SPUN1608N-101M	100	±20%	100kHz/0.25V	1.270	0.3	0.28
SPUN1608N-151M	150	±20%	100kHz/0.25V	1.400	0.27	0.25

Note:

Isat: Based on inductance change $(\triangle \text{L/L0:} \le \text{-20\%})$ @ ambient temp. 25°C

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

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(5)Reliability Tests

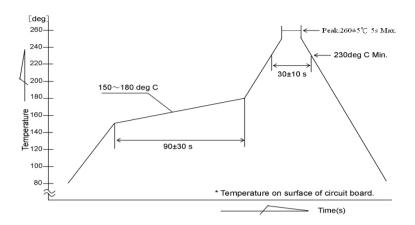
No.	Test item	Performance	Test details
1	Operating temperature	- 40 ~ +125℃.	Including self-generated heat
2	Storage Temperature	-40 \sim +85 $^{\circ}\mathrm{C}$ 5 to 40 $^{\circ}\mathrm{C}$ for the product with taping.	
3	Rated current		
4	Inductance (L)	Within the specified tolerance	LCR Meter: HP 4285A or equivalent, 100kHz, 0.25V
5	DC Resistance		DC Ohmmeter: HIOKI3227 or equivalent
6	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.
7	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. Porce 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
8	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
9	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.

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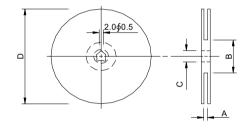
No.	Test item	Performance	Test details
10	Solderability	At least 90% of surface of terminal electrode is covered by new solder.	The test samples shall be dipped in flux, and then immersed in molten solder as shown in below. Flux: methanol solution containing rosin 25% Solder temperature: 245±5°C Time: 5±1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.
11	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
12	Thermal shock		The test samples shall be soldered to the test board by the reflow. The test samples shall be placed at specified temperature for specified time by step 1 to step 4 as shown below in sequence. The temperature cycles shall be repeated 100 cycles. Phase Temperature(C) Time(min.) 1 -40±3°C 30±3 2 RoomTemp Within 3 3 85±2°C 30±3 4 RoomTemp Within 3
13	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
14	Loading under damp heat life test		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 and applied the rated current continuously as shown in below. Temperature: 60±2°C Humidity: 90~95%RH Applied current: Rated current Time: 500+24/-0 hrs
15	Low temperature life test		The test samples shall be soldered to the test board by the reflow. After that, the test samples shall be placed at test conditions as shown in below. Temperature:-40±2°C Time:500+24/-0 hrs
16	Loading at high temperature life test		The test samples shall be soldered to the test board by the reflow. Temperature: 85±2℃. Applied current: Rated current Time: 500+24/-0 hrs.

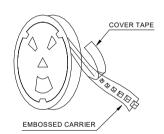
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(6)Soldering



(7)Packaging Information 7-1,Reel Dimension

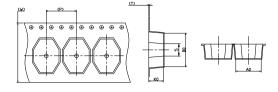


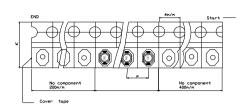


Туре	A(mm)	B(mm)	C(mm)	D(mm)
SPUN1608N	16.4±0.2	100±4.0	13.2±0.2	330±2.0

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7-2, Tape Dimension





Series	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
SPUN1608N	4.3±0.1	6.7±0.1	3.1±0.1	8.0±0.1	16±0.3	0.35±0.05

7-3, Packaging Quantity

Туре	Chip / Reel		
SPUN1608N	2000		

(8)Note

·Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. ASDI products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Temperature: 5 to 30deg.C, Humidity: 75% Max.
- 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.

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单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI