	<specif< td=""><td>ICATION></td><td></td></specif<>	ICATION>	
		SPEC.No. ASDIQ-SPE-8 Date: Jul.13,2022	6(00)
То :			
	CUSTOMER'S PRO	ODUCT NAME	
	ASDI PRODUCT N SPAC73N-SERIE		
RECEIPT CONFIRMA UNCONDIT	ATION FIONAL CONSENT APPROVED	CONDITIONAL CONSENT CHECKED	
ASDI SIGNATURE			
APPRO Xianglor		PREPARED Jiayin Cai	



Xiamen ASDI Electronics Co.,Ltd.

OO Jul 13,2022 New release Xianglong Li Liang Wang Jiayin Cai Image: Control of the con	REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
	00	Jul.13,2022	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~+125℃

*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)Transportation control equipment
7)Power-generation control equipment
which directly endanger human life
8)Atomic energy-related 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 office.

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-86(00)

ISSUE

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
Each Corporation	SPAC73N-SERIES	

1.SCOPE

Power source inductor for mobile devices such as HDDs, DVCs,DSCs,mobile display panels, portable game devices, compact power supply LCDs, other DC to DC converters

2.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/6
2.Dimensions	Please see (2)	3/6
3.Recommendend Land pattern	Please see (3)	3/6
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10.Standard test conditions		
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3.Manufacturing Location

China

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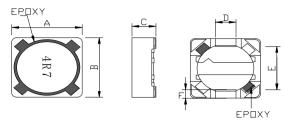
(1)Features

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





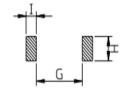
(2)Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SPAC73N	7.3±0.5	7.3±0.5	3.4MAX	2.0TYP	5.0TYP	1.1TYP

(3)Recommendend Land pattern

H(mm)	l(mm)	G(mm)
2.2 TYP	1.6TYP	4.8 TYP



(4)Part Numbering

SPAC	73	N	-	4R7	N
Α	В	С		D	E

- A: Series
- **B**: Dimension
- C: Control S/N
- D: Inductance
- 4R7=4.7µH
- E: Inductance Tolerance $M=\pm 20\%; N=\pm 30\%$

(5)Electrical Specification

Table 1

ASDI Part Number	Inductance (µH)	Tolerance (%)	Test Frequency	DCR (Ω) Max	I sat (A)	I rms (A)
SPAC73N-1R0N	1.00	±30%	100kHz/0.25	0.210	4.21	4.00
SPAC73N-1R5N	1.50	±30%	100kHz/0.25	0.240	3.98	3.75
SPAC73N-2R2N	2.20	±30%	100kHz/0.25	0.280	3.72	3.50
SPAC73N-3R3N	3.30	±30%	100kHz/0.25	0.280	3.64	3.30
SPAC73N-4R7N	4.70	±30%	100kHz/0.25	0.035	3.20	2.56
SPAC73N-6R8N	6.80	±30%	100kHz/0.25	0.070	1.80	1.44
SPAC73N-100M	10.0	±20%	100kHz/0.25	0.080	1.50	1.20
SPAC73N-150M	15.0	±20%	100kHz/0.25	0.180	1.30	1.04
SPAC73N-220M	22.0	±20%	100kHz/0.25	0.200	1.10	0.88
SPAC73N-330M	33.0	±20%	100kHz/0.25	0.340	1.00	0.80
SPAC73N-470M	47.0	±20%	100kHz/0.25	0.380	0.60	0.48
SPAC73N-680M	68.0	±20%	100kHz/0.25	0.540	0.50	0.40
SPAC73N-101M	100.0	±20%	100kHz/0.25	0.820	0.35	0.28

Note:

Isat: Based on inductance change (\triangle L/L0: \le -35%) @ ambient temp. 25°C Irms: Based on temperature rise (\triangle T: 40°C typ.)

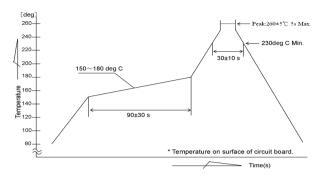
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No.	Test item	Performance		Tes	t details
1	Operating temperature	- 40 ~ +125℃		Including self-generated h	neat
2	Storage temperature	-40 ~ +85 $^{\circ}$ C. - 5 to 40 $^{\circ}$ C for the product wit	h taping.		
3	Rated current				
4	Inductance (L)	Million the control of and Astron		LCR Meter: HP 4285A or	equivalent, 100kHz, 0.25V
5	DC Resistance	Within the specified tolera	ance	DC Ohmmeter: HIOKI322	7 or equivalent
6	Temperature characteristics	Inductance change:Within	n±20%	Measurement of inductan temperature rang within—With reference to inductan change rate shall be calcu Measurement of inductan temperature rang within—With reference to inductan change rate shall be calcu	40°C to +85°C. nce value at+20°C, llated. ce shall be taken at 40°C to +125°C. nce value at+20°C,
7	Resistance to flexure substrate	No damage	No damage		Force in the direction of the ection of the test board 20 30 Board Sample 45±2 1.0 e epoxy-resin 0.15
8	Adhesion of Terminal electrode	Shall not come off PC bo	oard.	The test samples shall be and by the reflow. 10 N, Applied force: 10 N to X Duration: 5s Solder cream thickness:	and Y directions.
9	Resistance to Vibration	Inductance change: Withir No abnormality observed in ap		the reflow. Then it shall be submitted Frequency: 10-55Hz Total Amplitude: 1.5mm (May not exceed accelera Sweeping Method:10Hz to Time: 2 hours each in X, Recovery: At least 2hrs of	ntion 196m/S2) o 55Hz to 10Hz for 1min.
10	Solderability	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.			
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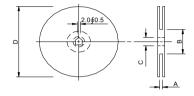
No.	Test item	Performance	Test details
11	Resistance to soldering		The test sample shall be exposed to reflow oven at 230±5 °C for 40 seconds, with peak temperature at 260±5 °C for 5 seconds,2 times. Test board thickness: 1.0mm Test board material: glass epoxy-resin
12	Thermal shock		The test samples 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
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°C. Applied current: Rated current Time: 500+24/-0 hrs.

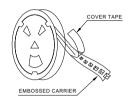
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(7)Soldering



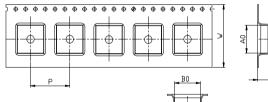
(8)Packaging Information 8-1,Reel Dimension

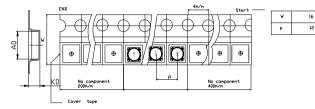




Туре	A(mm)	B(mm)	C(mm)	D(mm)
SPAC73N	12.4±0.2	10.0±4.0	13.2±0.2	330±2.0

8-2, Tape Dimension





Туре	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	t(mm)
SPAC73N	7.60±0.10	7.60±0.10	3.80±0.10	12.00±0.10	16.00±0.30	0.40±0.05

8-3, Packaging Quantity

Туре	Chip / Reel		
SPAC73N	1000		

(9)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