	<	SPECIF	ICATION>	>
			SPE Date	C.No. ASDIQ-SPE-084(00) : Jul.13, 2022
То :				
		CUSTOMER'S PRO	DUCT NAME	
		ASDI PRODUCT NA SPAC8D38N-SER		
RECEIPT CONFIRM	ATION			
	ITIONAL C	ONSENT	CONDIT	TIONAL CONSENT
	APPRO	OVED	CHE	CKED
ASDI SIGNATURE				
APPR Xiangl	OVED long Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



Xiamen ASDI Electronics Co.,Ltd.

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.

*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.

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ISSUE

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
Each Corporation	SPAC8D38N-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 _____

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1.Features	Please see (1)	3/6
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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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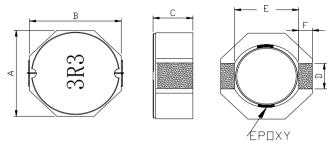
(1)Features

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





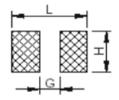
(2)Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
SPAC8D38N	8.0±0.3	8.0±0.3	4.0MAX	2.5REF	6.3TYP	1.2TYP

(3)Recommendend Land pattern

H(mm)	L(mm)	G(mm)
5.0 TYP	10.1TYP	6.1 TYP



(4)Part Numbering

SPAC	8D38	N	-	2R2	N
Α	В	С		D	Е

- A: Series B: Dimension
- C: Control S/N
- 2R2=2.2µH D: Inductance
- E: Inductance Tolerance $M=\pm 20\%; N=\pm 30\%$

(5)Electrical Specifications

Table 1

ASDI Part Number	Inductance (µH)	Tolerance (%)	Test Frequency	DCR (Ω) Max	I sat (A)	I rms (A)
SPAC8D38N-2R2N	2.20	±30%	100kHz/0.25V	0.017	5.40	4.32
SPAC8D38N-3R3N	3.30	±30%	100kHz/0.25V	0.028	4.50	3.60
SPAC8D38N-4R7N	4.70	±30%	100kHz/0.25V	0.035	4.05	3.24
SPAC8D38N-6R8N	6.80	±30%	100kHz/0.25V	0.060	3.20	2.56
SPAC8D38N-100M	10.0	±20%	100kHz/0.25V	0.078	2.80	2.24
SPAC8D38N-150M	15.0	±20%	100kHz/0.25V	0.102	2.50	2.00
SPAC8D38N-220M	22.0	±20%	100kHz/0.25V	0.145	2.25	1.80
SPAC8D38N-330M	33.0	±20%	100kHz/0.25V	0.208	1.80	1.44
SPAC8D38N-470M	47.0	±20%	100kHz/0.25V	0.258	1.50	1.20
SPAC8D38N-101M	100.0	±20%	100kHz/0.25V	0.450	0.95	0.76

Note:

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

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

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(6)Reliability Tests

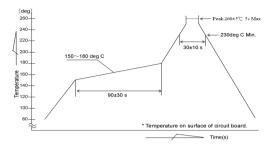
No.	Test item		Performance)		Test details
1	Operating temperature		- 40 ~ +125°C		Including self-	generated heat
2	Storage temperature	-	-40 ~ +85℃. 5 to 40℃ for the produc			
3	Rated current					
4	Inductance (L)		Within the specified tolerance		LCR Meter: H 0.25V	P 4285A or equivalent, 100kHz,
5	DC Resistance				DC Ohmmete	r: HIOKI3227 or equivalent
6	Temperature characteristics		Inductance change: W	/ithin±20%	temperature r With referenc °C,change rat Measurement temperature r With referenc	of inductance shall be taken at ang within–40°C to +85°C. e to inductance value at+20 e shall be calculated. of inductance shall be taken at ang within–40°C to +125°C. e to inductance value at+20 e shall be calculated.
7	Resistance to flexure substrate		No damage		testing board As illustrated of the arrow in test board rea RS Substrate size Substrate ma Solder cream	bles shall be soldered to the by the reflow. below, apply force in the direction dicating until deflection of the inches to 2mm. Force Rod Board Board 100x40x1.0 terial: glass epoxy-resin thickness: 0.15
8	Adhesion of Terminal electrode		Shall not come off Po	C board.	Applied force Duration: 5s	oles shall be soldered to the and by the reflow. 10 N, 5 s 10 N to X and Y directions. thickness: 0.15
9	Resistance to Vibration	No	Inductance change:Within±10% No abnormality observed in appearance.		board by the rather it shall be conditions. Frequency: 11 Total Amplitus acceleration 1 Sweeping Me 1min. Time: 2 hour Recovery: At standard conditions in the shall be shall	pe submitted to below test 0-55Hz de: 1.5mm (May not exceed
10	Solderability	At least 90%	At least 90% of surface of terminal electrode is covered by new solder.		then immerse below. Flux: methar Solder temper Time: 5±1.0 s Immersion de	oles shall be dipped in flux, and d in molten solder as shown in not solution containing rosin 25% rature: 245±5°C ec. pth: All sides of mounting be immersed.
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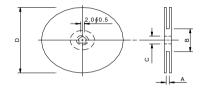
No.	Test item	Performance	Test details
11	Resistance to soldering		The test sample shall be exposed to reflow oven at 230±5°C for 40 seconds, with peak temperature at 260±5°C for 5 seconds,2 times. Test board thickness: 1.0mm Test board material: glass epoxy-resin
12	Thermal shock		The test samples shall 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 -40±3°C 30±3 2 RoomTemp Within 3
			3 85±2°C 30±3
			4 Room Temp 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°C. Applied current: Rated current Time: 500+24/-0 hrs.

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(7)Soldering



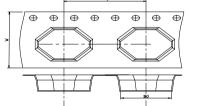
(8)Packaging Information 8-1,Reel Dimension



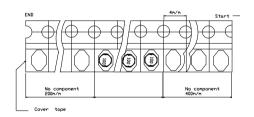


Туре	A(mm)	B(mm)	C(mm)	D(mm)
SPAC8D38N	12.4±0.2	100±4.0	13.2±0.2	330±2.0

8-2, Tape Dimension







Туре	Ao(mm)	Bo(mm)	Ko(mm)	P(mm)	W(mm)	T(mm)
SPAC8D38N	9.9±0.1	8.4±0.1	4.2±0.1	16.0±0.1	16±0.3	0.4±0.05

8-3, Packaging Quantity

Туре	Chip / Reel
SPAC8D38N	900

(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