<	<specifi< td=""><td>CATION></td><td></td></specifi<>	CATION>	
		SPEC.No. ASDI Date: Jul.13	Q-SPE-85(00) 3, 2022
То :			
	CUSTOMER'S PRO	DUCT NAME	
	ASDI PRODUCT NA SPAC8D43N-SER		
RECEIPT CONFIRMATION			
	CONSENT	CONDITIONAL CON	ISENT
APPR	OVED	CHECKED	
ASDI SIGNATURE			
APPROVED	CHECKED	PREPARED	
Xianglong Li	Liang Wang	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 with	in 12 monthes	
Focus on the storage conditions.		
Solderability may become weak if	it exceeds the period	
*Do not use and store prodcut and	•	das corrosion
(Salt,Acid,Alkaline).		gue concelen
*The products must be preheated	before soldering	
The operating temperature includi		/////////////////////////////////////
*Rework by soldering iron;Please		
*In case of insert P.C. Board on c	•	•
*Be careful to arrange of non-mag		
The error may be caused by magi		
*In case handle the products, plea		ic discharge on
human body.	se use whist strap for ground stat	io disorial ye oli
The product keeps away from ma	anet or magnetized things	
*Do not use the product beyond the		ecification
*About an application	ie mendened conditions in this sp	
The products listed on this specific	cation sheet are intended for use	in general electronic
equipment		in general cleationio
(AV equipment, telecommunicatio	ns equipment home appliances	amusement
equipment, computer equipment,		
equipment, industrial robots) unde		
*The products are not designed of	•	
applications listed below, whose p	•	
level of safety or reliability, or who		
damage to society, person or prop		
any damage or liability caused		
by use of the products in any of th	he applications below or for any ot	her use exceeding the
range or conditions set forth in thi	•••	
1)Aerospace/Aviation equipment		oment
2)Military equipment	7)Power-generation control ed	
3)Seabed equipment	which directly endanger hu	
4)Safety equipment	8)Atomic energy-related equip	
5)Medical equipment	9)Other applications that are i	
· · ·	considered general-purpose	
If you intend to use the products in	• • •	
office.		
Transportation equipment (cars, e	electric trains, ships, etc.), Public i	nformation-processing
	atus / burning equipment, Disaste	
prevention equipment	3 1 1 9	•
When using this product in genera	al-purpose applications, vou are k	indly requested to
take into consideration securing p		• •
etc., to ensure higher safety.	· · · · · · · · · · · · · · · · · · ·	J
, <u> </u>		
	DWG.No.	
en ASDI Electronics Co.,Ltd.		ISSUE

ASDIQ-SPE-85(00)

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
Each Corporation	SPAC8D43N-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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3.Recommendend Land pattern	Please see (3)	3/6
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8.Packaging Information	Please see (8)	6/6
9.Note	Please see (9)	6/6
10.Standard test conditions		

3.Manufacturing Location

China

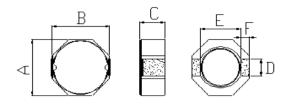
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(1)Features

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)
SPAC8D43N	8.3 MAX	8.3 MAX	4.5 MAX	2.5 MAX	6.3	1.2

(3)Recommendend Land pattern

H(mm)	l(mm)	J(mm)			нţ
2.8 TYP	2.0 TYP	6.1 TYP	ן ער	Ţ	

(4)Part Numbering

SPAC	8D43	Ν	-	1R8	Ν
А	В	С		D	E
A: Series B: Dimension					
C: Control S/N					
D: Inductance		1R8=1.8	8uH		

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

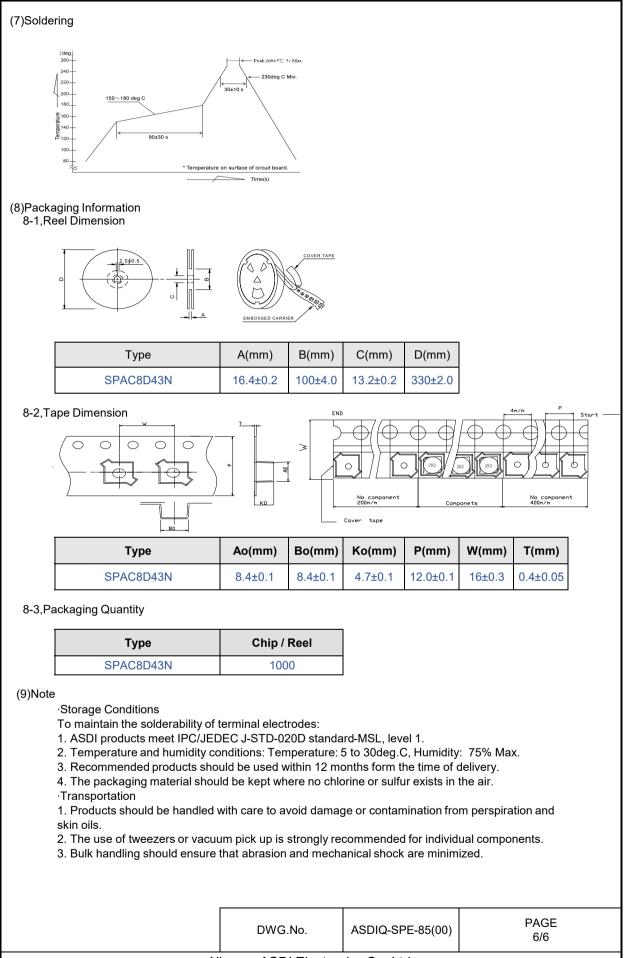
(5)Electrical Specification Table 1_____

ASDI Part Number	Inductance (µH)	Tolerance (%)	Test Frequency	DCR (Ω) Max	l sat (A)	l rms (A)
SPAC8D43N-1R0N	1.00	±30%	100kHz/0.25V	0.011	7.93	6.850
SPAC8D43N-1R8N	1.80	±30%	100kHz/0.25V	0.016	5.23	5.150
SPAC8D43N-2R5N	2.50	±30%	100kHz/0.25V	0.020	5.12	5.000
SPAC8D43N-3R9N	3.90	±30%	100kHz/0.25V	0.022	4.72	4.500
SPAC8D43N-4R7N	4.70	±30%	100kHz/0.25V	0.022	4.18	4.000
SPAC8D43N-6R8N	6.80	±30%	100kHz/0.25V	0.030	4.01	3.870
SPAC8D43N-100M	10.0	±20%	100kHz/0.25V	0.033	3.32	3.100
SPAC8D43N-150M	15.0	±20%	100kHz/0.25V	0.075	2.47	2.350
SPAC8D43N-220M	22.0	±20%	100kHz/0.25V	0.082	2.06	1.900
SPAC8D43N-330M	33.0	±20%	100kHz/0.25V	0.125	1.81	1.620
SPAC8D43N-470M	47.0	±20%	100kHz/0.25V	0.176	1.52	1.350
SPAC8D43N-680M	68.0	±20%	100kHz/0.25V	0.247	1.33	1.200
SPAC8D43N-101M	100.0	±20%	100kHz/0.25V	0.377	1.18	1.020
SPAC8D43N-151M	150.0	±20%	100kHz/0.25V	0.520	0.98	0.830
SPAC8D43N-221M	220.0	±20%	100kHz/0.25V	0.793	0.79	0.685
SPAC8D43N-331M	330.0	±20%	100kHz/0.25V	1.230	0.65	0.540

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ity tests					
No.	Test item	Performance	e		Test details
1	Operating temperature	- 40 ~ +125 °C	1 ,	Including self-	generated heat
2	Storage temperature	-40 ~ +85℃ - 5 to 40℃ for the produc			
3	Rated current				
4	Inductance (L)			LCR Meter: H 0.25V	P 4285A or equivalent, 100kHz,
5	DC Resistance	Within the specified	tolerance	DC Ohmmeter	r: HIOKI3227 or equivalent
6	Temperature characteristics	Inductance change: V	te W Inductance change: Within±20% س te W		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	No damage		bles shall be soldered to the by the reflow. below, apply force in the direction indicating until deflection of the ches to 2mm. Porce Direct Rod Direct Director Rod Director Sample 45±2 e: 100x40x1.0 thickness: 0.15
8	Adhesion of Terminal electrode	Shall not come off PC board.		The test samp testing board Applied force: Duration: 5s	 5 2.1 1.5 bles 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	Inductance change: Within±10% No abnormality observed in appearance.		board by the r Then it shall b conditions. Frequency: 10 Total Amplituc acceleration 1 Sweeping Met 1min. Time: 2 hour: Recovery: At I standard cond	e submitted to below test)-55Hz le: 1.5mm (May not exceed
10	Solderability		At least 90% of surface of terminal electrode is covered by new solder.		bles shall be dipped in flux, and d in molten solder as shown in ol solution containing rosin 25% rature: 245±5℃ ec. pth: All sides of mounting be immersed.
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11 F		Performance	Test details
i	Resistance to soldering		The test sample shall be exposed to reflow oven a 230±5℃ for 40 seconds, with peak temperature at 260±5℃ for 5 seconds,2 times. Test board thickness: 1.0mm Test board material: glass epoxy-resin
12 T	Fhermal 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(で) Time(min.) 1 -40±3°C 2 Room Temp 3 85±2°C 30±3 4 Room Temp Within 3
13 D	Damp heat life test	Inductance change: Within±10% No abnormality observed in appearance.	
	_oading 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 an 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 Lo	ow 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
	oading at high emperature 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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