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To :				DIQ-SPE-129(00) g.08,2022
	ASDI PR	ER'S PRODUCT NA ODUCT NAME: 5N-SERIES	ME	
	MATION		CONDITIONAL CO	DNSENT
	APPROVED		CHECKED	
ASDI SIGNATURE				
	APPROVED Xianglong Li	CHECKED Liang Wang	PREPARED Jiayin Cai	



Xiamen ASDI Electronics Co.,Ltd.

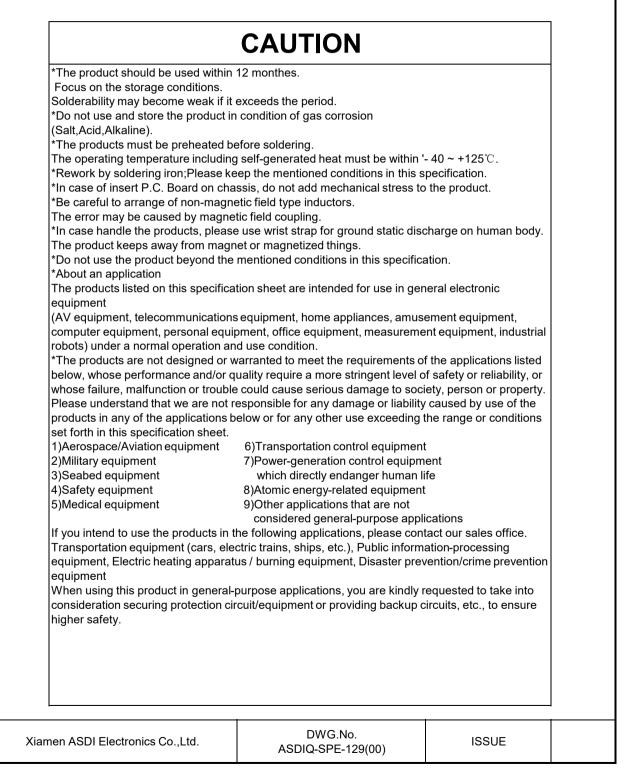
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.08,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai
	<u> </u>			<u></u>	

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.



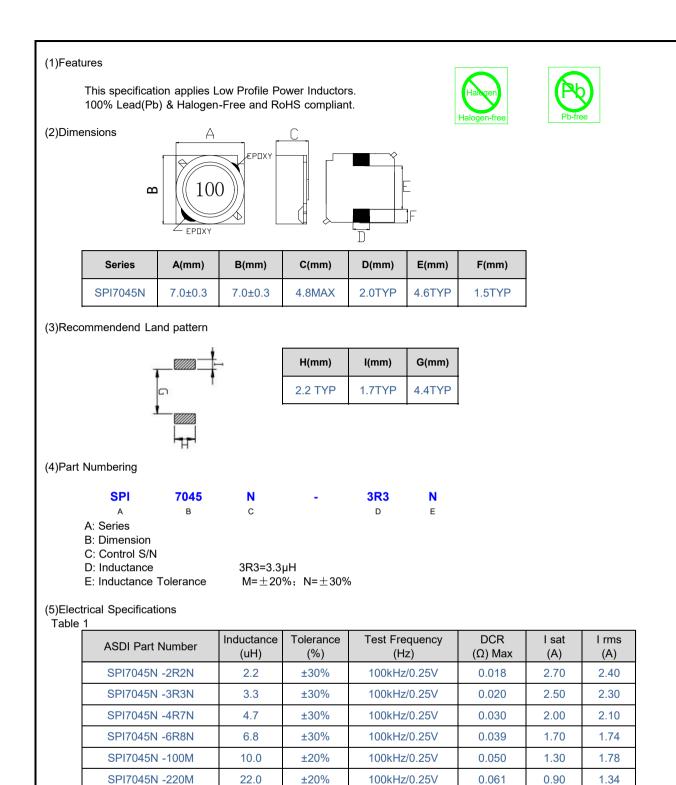
Listed item		Attachment&Tables	Page	
1.Features		Please see (1)	3/6	
2.Dimensions	2.Dimensions		3/6	
 3.Recommendend Land pattern 4.Part Numbering 5.Electrical Specifications 6.Reliability Tests 7.Soldering 8.Packaging Information 9.Note 		Please see (3)	3/6	
		Please see (4)	3/6	
		Please see (5)	3/6	
		Please see (6)	4/6	
		Please see (7)	6/6	
		Please see (8)	6/6	
		Please see (9)	6/6	
acturing Location				
acturing Location				

ASDI PART No.

CUSTOMER'S DWG NO.

CUSTOMER

DWG.NO. ASDIQ-SPE-129(00) PAGE 2/6 Xiamen ASDI Electronics Co.,Ltd.



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

33.0

47.0

68

100

150

220

±20%

±20%

±20%

±20%

±20%

±20%

SPI7045N -330M

SPI7045N -470M

SPI7045N -680M

SPI7045N -101M

SPI7045N -151M

SPI7045N -221M

	DWG.No.	ASDIQ-SPE-129(00)	PAGE 3/6
Xiamen ASDI I	Electronics	s Co.,Ltd.	-

100kHz/0.25V

100kHz/0.25V

100kHz/0.25V

100kHz/0.25V

100kHz/0.25V

100kHz/0.25V

0.096

0.125

0.175

0.250

0.340

0.520

0.82

0.75

0.60

0.50

0.40

0.33

1.09

0.92

0.77

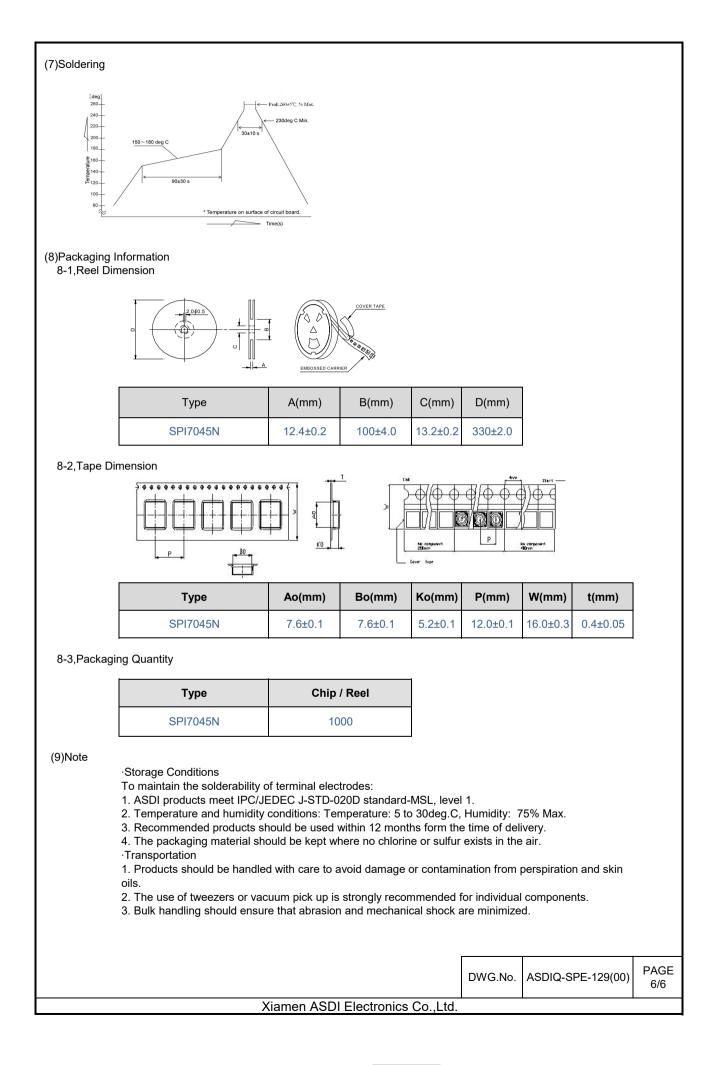
0.65

0.55

0.45

	Test item	Performance	Test details
1	Operating temperature	- 40 ~ +125℃	ncluding self-generated heat
2	Storage temperature	-40 ~ +85 $^\circ \rm C$ 5 to 40 $^\circ \rm C$ 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 Rest Example Substrate size: 100x40x1.0 Substrate material: glass epoxy-resin Solder cream thickness: 0.15 4.0 1.5 2.1 1.5 2.1 1.5
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.
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℃ Time: 5±1.0 sec. Immersion depth: All sides of mounting terminal shall be immersed.

No.	Test item	Performance	Test details
11	Resistance to soldering		The test sample shall be exposed to reflow oven at 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	Thermal shock		The test samples shall be soldered to the testboard by the reflow.The test samples shall be placed at specifiedtemperature for specified time by step 1 to step 4as shown below in sequence.The temperature cycles shall be repeated 100cycles shall be repeated 100<
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 tes 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.



单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI