	<spfcif< th=""><th>CATION&gt;</th><th></th></spfcif<>	CATION>	
			No. ASDIQ-SPE-033(00). May. 18, 2022
То :			
	CUSTOMER'S PRO	DUCT NAME	
	ASDI PRODUCT NA		
	CONSENT		DNAL CONSENT
APPR	OVED	CHECk	KED
ASDI SIGNATURE			
APPROVED	CHECKED	PREPARED	
Xianglong Li	Liang Wang	Jiayin Cai	



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Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	May. 18, 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 withi	n 12 monthes				
Focus on the storage conditions.					
Solderability may become weak if	it exceeds the period				
*Do not use and store the product	•				
(Salt,Acid,Alkaline).	in condition of gas contration				
*The products must be preheated	hoforo coldoring				
		ithin ' 55~±125℃			
The operating temperature includi					
*Rework by soldering iron;Please	•	•			
*In case of insert P.C. Board on cl		ess to the product.			
*Be careful to arrange of non-mag					
The error may be caused by mag		ia diaabarara ara			
*In case handle the products, plea	ise use wrist strap for ground stat	ic discharge on			
human body.					
The product keeps away from mag		ifi ti			
*Do not use the product beyond th	ie mentionea conditions in this sp	ecilication.			
*About an application					
The products listed on this specific	cation sheet are intended for use	in general electronic			
equipment					
(AV equipment, telecommunicatio					
equipment, computer equipment,					
equipment, industrial robots) unde					
*The products are not designed or					
applications listed below, whose p					
of safety or reliability, or whose fai					
damage to society, person or prop					
		se of the products in any of the applications below or			
for any other use exceeding the ra	-	-			
1)Aerospace/Aviation equipment	<ol><li>6)Transportation control equip</li></ol>	oment			
2)Military equipment	7)Power-generation control ec	quipment			
3)Seabed equipment	which directly endanger hu	man life			
4)Safety equipment	8)Atomic energy-related equip	oment			
5)Medical equipment	9)Other applications that are r				
	considered general-purpose	e 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.					
,					
en ASDI Electronics Co.,Ltd.	DWG.No.	ISSUE			
	ASDIQ-SPE-033(00)				

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	SIPM1265A-SERIES	

## 1.Applications

Laptops and PCs,Switch and servers,Base stations, DC/DC converters,Battery powered devices.SSD modules.

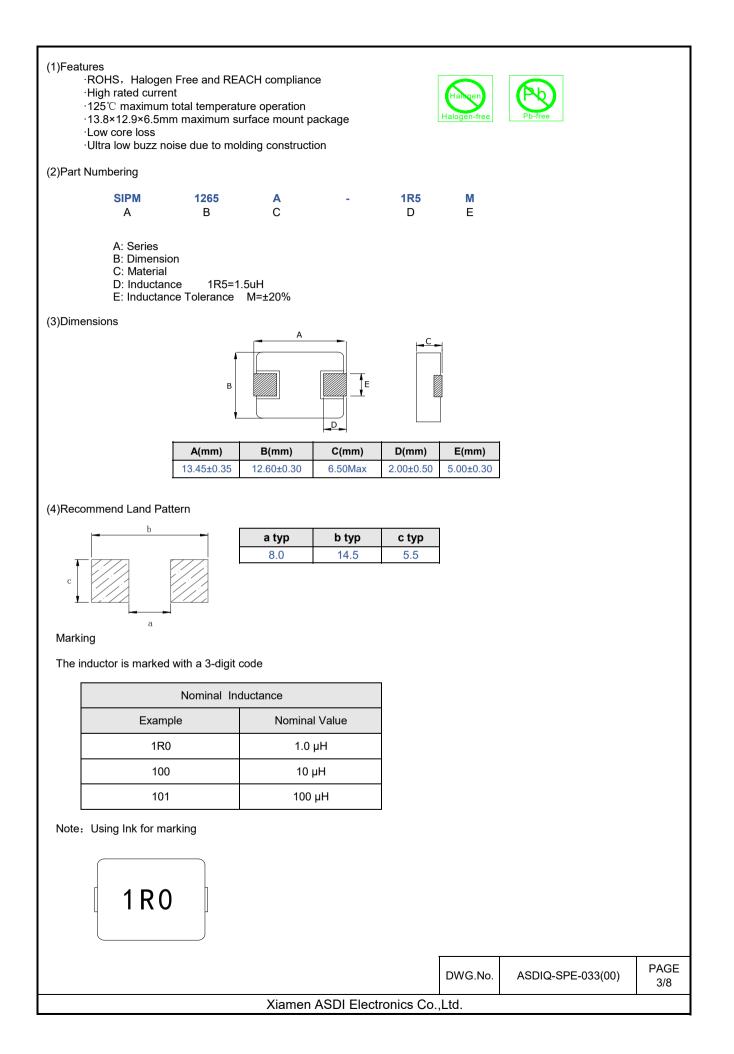
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# 3.Manufacturing Location

China

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nen ASDI Electronics Co.,Ltd.		



## (5)Electrical Specifications

### Table 1

	Inductance	DC Resistance	Saturation Current	Heating Rating Current	
ASDI Part Number	L0(µH)	DCR (mΩ)	I sat(A)	l rms (A)	
	±20% 100 KHz/1V	MAX.	TYP.	TYP.	
SIPM1265A-4R7M	4.7	8.50	24.0	16.0	
SIPM1265A-5R6M	5.6	10.5	22.5	14.0	
SIPM1265A-6R8M	6.8	12.019.014.016.0	19.0	13.0	
SIPM1265A-8R2M	8.2		16.0	12.0	
SIPM1265A-100M	1 10.0	16.5	15.0	11.0	
SIPM1265A-150M	15.0	26.0	11.0	9.5	
SIPM1265A-220M	22.0	36.0	9.00	8.0	
SIPM1265A-330M	33.0	65.0	8.00	6.5	
SIPM1265A-470M	47.0	70.0	6.80	5.5	
SIPM1265A-680M	68.0	120.0	5.20	4.8	
SIPM1265A-820M	82.0	135.0	4.50	4.0	
SIPM1265A-101M	100	170.0	4.00	3.5	

Note:

1. All test data is referenced to 25 °C ambient

2. Operating temperature range - 55 °C to + 125 °C

3. Irms (A):DC current (A) that will cause an approximate  $\Delta T$  of 40 °C(reference ambient

temperature is 25 °C)

4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %

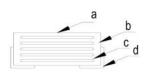
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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## (6)Structure and Components

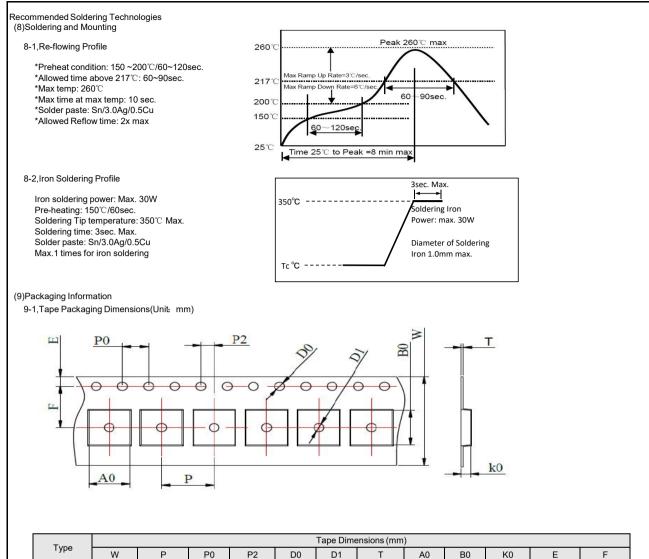
Symbol	Components	Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn



## (7)Reliability Tests

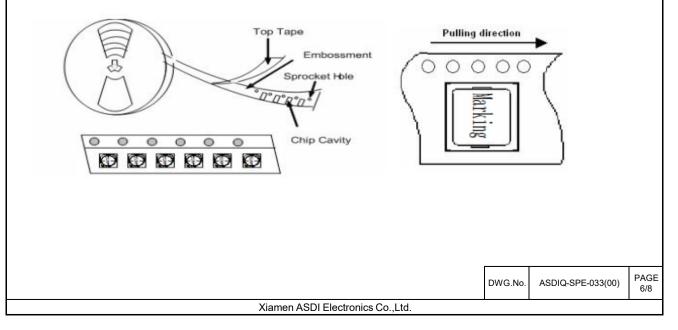
	Mechanical Reliability									
No.	Test item	Performance	Test details							
1	Solderability	1. No case deformation or change in apperarance 2. New solder coverage more than 95%	1.Preheat: 155℃±5℃, 60S±2S 2.Solder: lead-free. 3.Temperature: 240℃±5℃, flux 3.0S±0.5S.							
2	Mechanical shock	1. No case deformation or change in apperarance 2. △L/Lo≦±10%	Acceleration: 100G     Pulse time:: 6ms     3. 3 times in each positive and     negative direction of 3 mutual     beroendicular directions							
3	Mechanical vibration	1.No case deformation or change in apperarance 2. △L/Lo≦±10%	1. Reflow: 2times 2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm 4. Directions: X,Y,Z 5. Time: 12 cycle / direction							
		Endurance and Reliability Test								
No.	Test item	Performance	Test details							
4	Thermal shock test	Inductance change: Within ± 10% Without distinct damage in appearance	<ol> <li>First -55℃ for 30 minutes, last 125 ℃ for 30 minutes as 1 cycle. Go through 1000 cycles.</li> <li>Max transfer time is 3 minutes.</li> <li>Measured at room temperature after placing for 24±2 hours</li> </ol>							
5	Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in appearance	1.Reflow 2 times, 2.85℃,85%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours							
6	Low temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	<ol> <li>Temperature: -55 ± 2°C</li> <li>Time: 1000 hours</li> <li>Measured at room temperature after placing for 24±2 hours</li> </ol>							
7	High temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature : +125 ± 2°C 2. Time : 1000 hours 3. Measured at room temperature after placing for 24±2 hours							

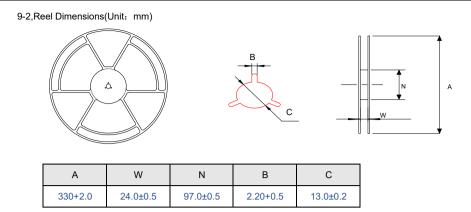
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Гуре		W	Р	P0	P2	D0	D1	Т	A0	B0	K0	Е	F
SIPM12	65A	24±0.3	16±0.1	4.0±0.1	2.0±0.1	1.5±0.1	1.5±0.1	0.5±0.05	13.1±0.1	14±0.1	6.8±0.1	1.75±0.1	11.5±0.1

#### Taping Drawings (UNIT:mm)





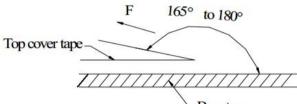
9-3, Packaging Quantity

	Туре	Standard Quantity		
		Reel	Inner box	Carton box
	SIPM1265A	500 pcs / reel	2Reel / box (1000 pcs)	4 Middle boxes, (4000 pcs)

9-4, Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N





Label

9-5,Reel Label

- ·Label on the reel
- ·Customer's part Number
- ·Lot Number
- ·Quantity
- ·Date code
- ·Shipping Label
- ·Customer's part Number
- ·Manufacturer's part Number
- Quantity
- ·Date code

9-6, Inner Box

Packing Type	A (mm)	B (mm)	C (mm)
Inner Box	335	70	340

DWG.No.

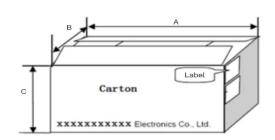
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### 9-7,Carton



Packing Type	A (mm)	B (mm)	C (mm)
Туре	360	360	360

#### (10)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.
- Recommended products should be used within 12 months form the time of delivery.
   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.
- 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