	<specif< th=""><th>CATION></th><th></th></specif<>	CATION>	
			. ASDIQ-SPE-031(00) May. 15, 2022
То :			
	CUSTOMER'S PRO	DUCT NAME	
	ASDI PRODUCT NA		
	CONSENT	CONDITIONA	AL CONSENT
APPR	OVED	CHECKED)
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. 15, 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				
Focus on the storage conditions.	in 12 monutes.			
	it avagade the period			
Solderability may become weak if				
*Do not use and store the product	In condition of gas corresion			
(Salt,Acid,Alkaline).	hafana a dalanin n			
*The products must be preheated				
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				
*In case handle the products, plea	ase use wrist strap for ground stat	c discharge on		
human body.				
The product keeps away from mag				
*Do not use the product beyond the	ne mentioned conditions in this sp	ecification.		
*About an application				
The products listed on this specifie	cation sheet are intended for use	n general electronic		
equipment				
(AV equipment, telecommunicatio				
equipment, computer equipment,				
equipment, industrial robots) unde	er a normal operation and use con	dition.		
*The products are not designed or	r warranted to meet the requireme	ents of the		
applications listed below, whose p	erformance and/or quality require	a more stringent level		
of safety or reliability, or whose fai	ilure, malfunction or trouble could	cause serious		
damage to society, person or prop	perty. Please understand that we a	are not responsible for		
any damage or liability caused by	use of the products in any of the a	applications below or		
for any other use exceeding the ra	ange or conditions set forth in this	specification sheet.		
1)Aerospace/Aviation equipment	6)Transportation control equip	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 r			
, , , , ,	considered general-purpose			
If you intend to use the products in	• • •	••		
office.	, piedo			
Transportation equipment (cars, e	lectric trains, ships, etc.), Public ii	nformation-processing		
equipment, Electric heating apparatus / burning equipment, Disaster prevention/crime prevention equipment				
When using this product in genera	al-nurnose applications, you are ki	ndly 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-031(00)	ICOUL		

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	SIPM1205A-SERIES	

1.Applications

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

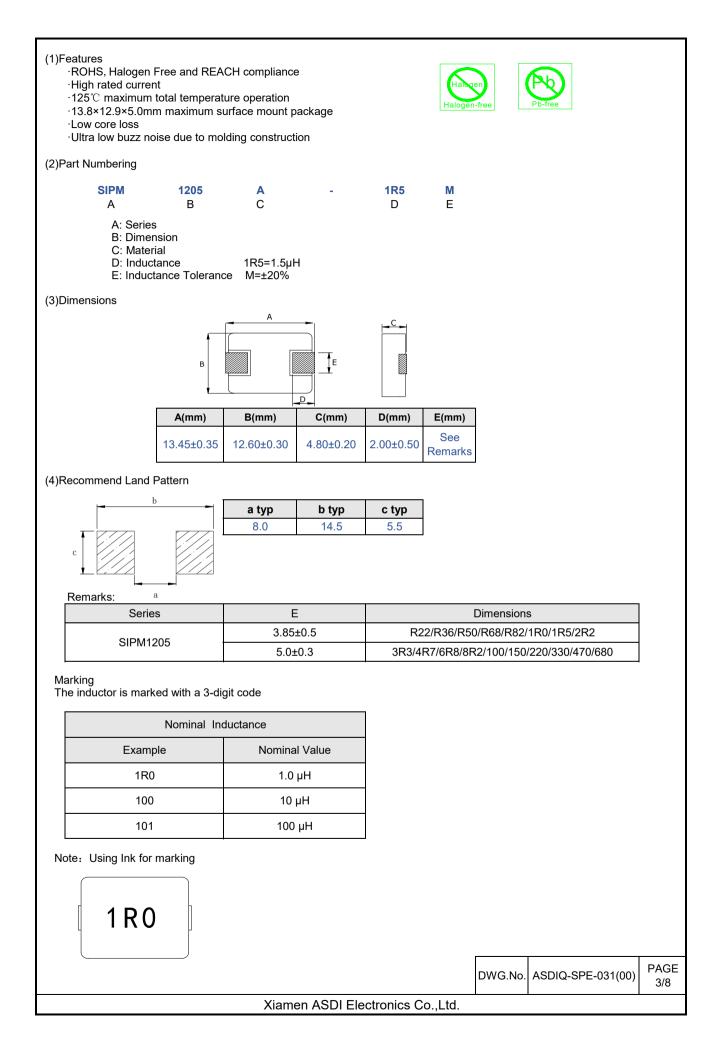
2.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/8
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3.Manufacturing Location

China

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(5)Electrical Specifications Table 1

	Inductance	DC Resistance	Saturation Current	Heating Rating Current
ASDI Part Number	L0(µH)	DCR (mΩ)	I sat(A)	Irms (A)
	±20% 100 KHz/1V	MAX	TYP.	TYP.
SIPM1205A-R22M	0.22	0.70	75.0	50.0
SIPM1205A-R36M	0.36	0.85	50.0	42.0
SIPM1205A-R50M	0.50	1.15	48.0	38.0
SIPM1205A-R68M	0.68	1.55	46.0	33.0
SIPM1205A-R82M	0.82	1.67	39.0	30.0
SIPM1205A-1R0M	1.00	2.20	35.0	26.0
SIPM1205A-1R5M	1.50	3.20	33.0	23.0
SIPM1205A-2R2M	2.20	5.00	24.0	15.0
SIPM1205A-3R3M	3.30	7.00	22.0	14.0
SIPM1205A-4R7M	4.70	9.00	20.0	13.0
SIPM1205A-6R8M	6.80	18.0	16.0	12.0
SIPM1205A-8R2M	8.20	20.0	13.0	9.5
SIPM1205A-100M	10.0	22.0	12.0	9.0
SIPM1205A-150M	15.0	30.0	10.0	8.0
SIPM1205A-220M	22.0	58.0	6.5	4.5
SIPM1205A-330M	33.0	84.0	6.0	3.5
SIPM1205A-470M	47.0	130.0	5.0	3.0
SIPM1205A-680M	68.0	145.0	4.5	2.8

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 ΔT of 40 °C(reference ambient temperature is 25 °C)

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

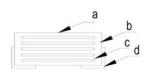
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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

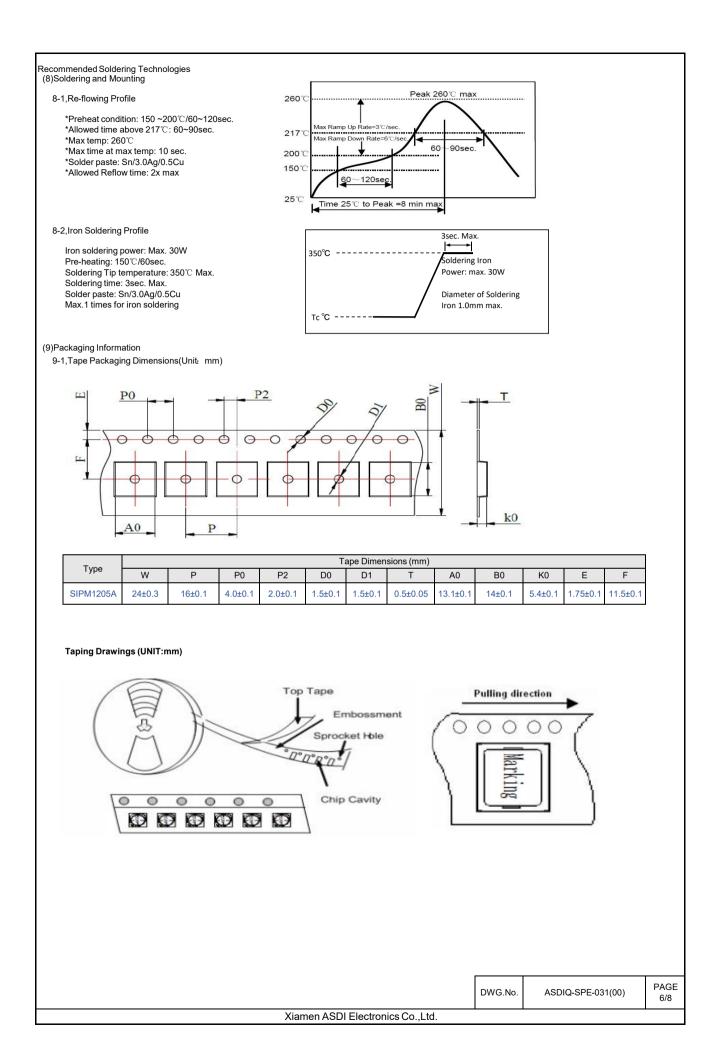
Symbol	Components	Material
а	a Marking Ink (black)	
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn

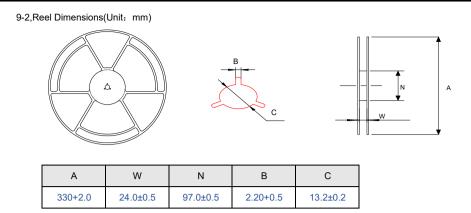


(7)Reliability Tests

	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%	1. Acceleration: 100G 2. Pulse time:: 6ms 3. 3 times in each positive and negative direction of 3 mutual perpendicular 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 \pm 10% Without distinct damage in appearance	 First -55°C for 30 minutes, last 125 °C for 30 minutes as 1 cycle. Go through 1000 cycles. Max transfer time is 3 minutes. Measured at room temperature after placing for 24±2 hours 		
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	 Temperature: -55 ± 2°C Time: 1000 hours Measured at room temperature after placing for 24±2 hours 		
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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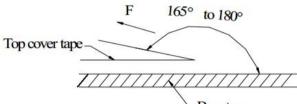
9-3, Packaging Quantity

Turne	Standard Quantity			
Туре	Reel	Inner box	Carton box	
SIPM1205A	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

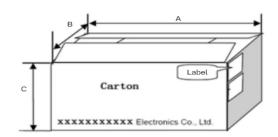
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9-7,Carton



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.
- 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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PAGE 8/8 单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI