<	<specif< th=""><th>ICATION></th><th></th></specif<>	ICATION>			
			C.No. ASDIQ-SPE-029(01)		
То :					
	CUSTOMER'S PRO	DUCT NAME			
ASDI PRODUCT NAME: SIPM1005A-SERIES					
RECEIPT CONFIRMATION					
	CONSENT	CONDITI	ONAL CONSENT		
APPROVED 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.29,2018	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	Sep.11,2020	Added SIPM1005A-820M	Xianglong Li	Liang Wang	Jiayin Cai
	-		-		
	-		<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.

	CAUTION			
*The product should be used withi	n 12 monthes			
Focus on the storage conditions.				
	it exceeds the period			
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.				
The operating temperature includi		ithin ' 55~±125℃		
• •				
*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 magr		ia diacharac an		
*In case handle the products, plea	ise use whist strap for ground stat	ic discharge on		
human body.	anot or magnetized this as			
The product keeps away from mag		adification		
*Do not use the product beyond th	ie mentioned conditions in this sp	ecincation.		
*About an application	action about are intended for the	in annoral clastrania		
The products listed on this specific	cation sheet are intended for use	in general electronic		
equipment	no oquinment heme engligaçõe .	amuaamant		
(AV equipment, telecommunicatio				
equipment, computer equipment,				
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 prop				
any damage or liability caused by				
for any other use exceeding the ra	-	-		
1)Aerospace/Aviation equipment	6)Transportation control equip			
2)Military equipment	7)Power-generation control ec			
3)Seabed equipment	which directly endanger hu			
4)Safety equipment	8)Atomic energy-related equip			
5)Medical equipment	9)Other applications that are r			
If you intend to use the products in	considered general-purpose			
If you intend to use the products in office.	The following applications, please	E COMACI OUI SAIES		
	lastria traina shina sta) Dublia i	formation processing		
Transportation equipment (cars, e				
equipment, Electric heating appara		r prevention/crime		
prevention equipment	l numero applications, you are li	adju requested to		
When using this product in generation				
take into consideration securing protection circuit/equipment or providing backup circuits,				
etc., to ensure higher safety.				
1				
en ASDI Electronics Co.,Ltd.	DWG.No.	ISSUE		
ion AODI Electronics Co., etc.	ASDIQ-SPE-029(01)	1000		

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
Each Corporation	SIPM1005A-SERIES	

1.Applications

Note PC power system, incl. IMVP-6, Switch and servers,Base stations Battery powered devices,SSD modules,DC/DC converter .

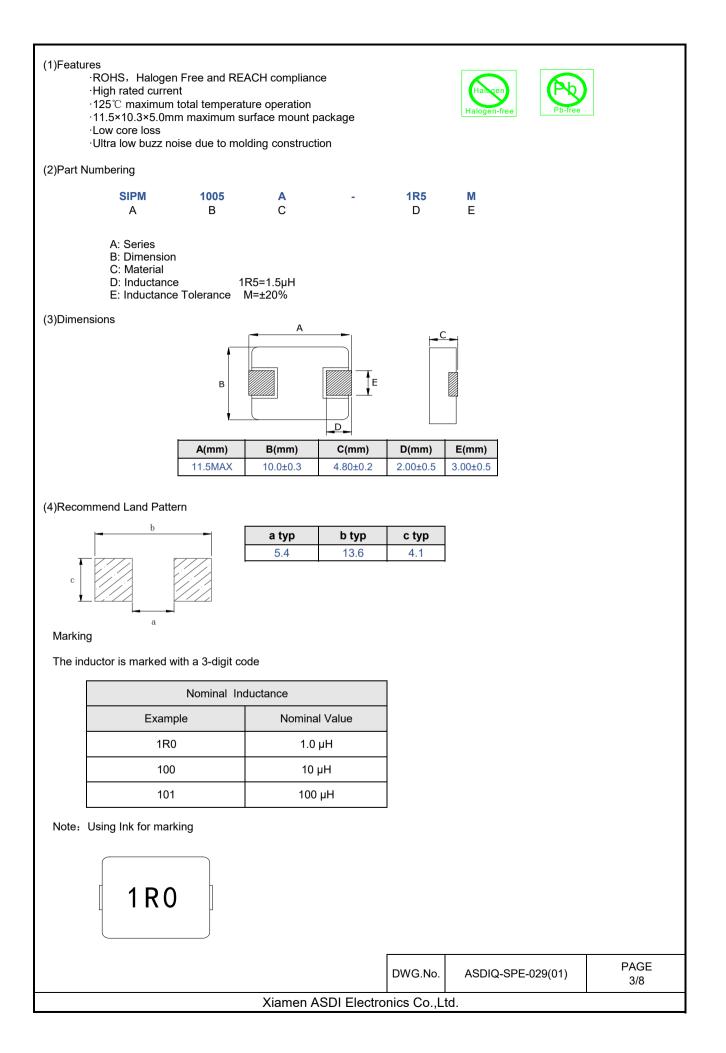
2.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/8
2.Part Numbering	Please see (2)	3/8
3.Dimensions	Please see (3)	3/8
4.Recommend Land Pattern	Please see (4)	3/8
5.Electrical Specifications	Please see (5)	4/8
6.Structure and Components	Please see (6)	5/8
7.Reliability Tests	Please see (7)	5/8
8.Soldering and Mounting	Please see (8)	6/8
9.Packaging Information	Please see (9)	6/8
10.Note	Please see (10)	8/8

3.Manufacturing Location

China

	DWG.No.	ASDIQ-SPE-029(01)	PAGE 2/8	
Xiamen ASDI Electronics Co.,Ltd.				



(5)Electrical Specifications Table 1

DC Saturation Heating Rating Inductance Resistance Current Current ASDI Part Number L0(µH) DCR (mΩ) I sat(A) Irms (A) ±20% MAX TYP. TYP. 100 kHz/1V 0.22 SIPM1005A-R22M 8.0 65 37.0 SIPM1005A-1R0M 1.00 30 23.0 3.0 25 SIPM1005A-1R5M 1.50 3.8 21.0 2.20 SIPM1005A-2R2M 6.0 19 15.0 SIPM1005A-3R3M 3.30 10.0 16 13.0 SIPM1005A-4R7M 4.70 14.0 15 11.0 SIPM1005A-5R6M 5.60 17.0 14 9.5 6.80 18.5 14 9.0 SIPM1005A-6R8M 8.0 SIPM1005A-100M 10.00 28.0 10 SIPM1005A-150M 15.00 42.0 7.5 6.5 22.00 50.0 5.5 SIPM1005A-220M 6.0 33.00 86.0 5.2 4.8 SIPM1005A-330M 47.00 127.0 4.5 3.7 SIPM1005A-470M 290.0 SIPM1005A-101M 100.0 2.8 2.1

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 %

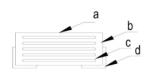
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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.

	DWG.No.	ASDIQ-SPE- 029(01)	PAGE 4/8
Xiamen ASDI Electronics C	o.,Ltd.		

(6)Structure and Components

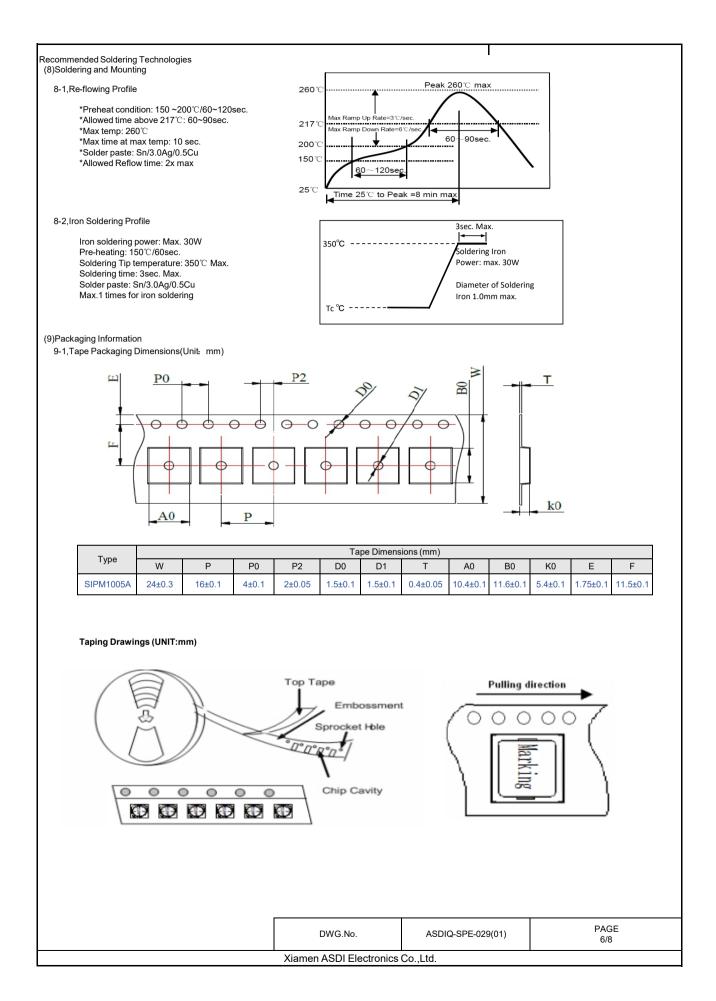
Symbol	Components	Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn

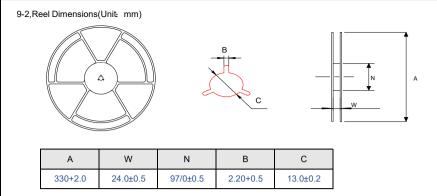


(7)Reliability Tests

	i	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 times in each positive and negative direction of 3 mutual perpendicular directions
3	Mechanical vibration	nical 1.No case deformation 2. Frequency: 10HZ~55H 20 Min/Cycles	
		Endurance and Reliability Test	
No.	Test item	Performance	Test details
4	Thermal shock test	Inductance change: Within ± 10% Without distinct damage in appearance	 First -55°C for 30 minutes, last 1°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°C,85%RH,1000 hours 3.Measured at room temperature a 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℃ 2. Time : 1000 hours 3. Measured at room temperature

	DWG.No.	ASDIQ-SPE-029(01)	PAGE 5/8
Xiamen ASDI Electronics Co.,Ltd.			





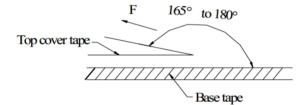
9-3, Packaging Quantity

Turne	Standard Quantity		
Туре	Reel	Inner box	Carton box
SIPM1005A	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 $\ensuremath{\mathsf{N}}$



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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	DWG.No.	ASDIQ-SPE-029(01)	PAGE 7/8				
Xiamen ASDI Electronics Co., Ltd.							

A	Packing Type	A (mm)	B (mm)	C (mm)
Label ronics Co., Ltd.	Туре	360	360	360
DEC J-STD-020D standard-N conditions: Temperature: 5 to build be used within 12 month uld be kept where no chlorine with care to avoid damage o num pick up is strongly recom	30deg.C, Humidity: 75 as form the time of delive or sulfur exists in the or contamination from amended for individual	rery. air.		
				PAGE
	terminal electrodes: DEC J-STD-020D standard-I onditions: Temperature: 5 to puld be used within 12 month uld be kept where no chlorine with care to avoid damage co um pick up is strongly recom	Label Type Type Type terminal electrodes: Type DEC J-STD-020D standard-MSL, level 1. Standard-MSL, level 1. onditions: Temperature: 5 to 30deg.C, Humidity: 75 75 ould be used within 12 months form the time of delivuld be kept where no chlorine or sulfur exists in the with care to avoid damage or contamination from um pick up is strongly recommended for individual 10	Packing Type A (mm) Type 360 Type 360 terminal electrodes: 200 DEC J-STD-020D standard-MSL, level 1. 300 onditions: Temperature: 5 to 30deg.C, Humidity: 75% ould be used within 12 months form the time of delivery. uld be kept where no chlorine or sulfur exists in the air. with care to avoid damage or contamination from	Packing Type A (mm) B (mm) Type 360 360 Type 360 360 terminal electrodes: DEC J-STD-020D standard-MSL, level 1. 360 onditions: Temperature: 5 to 30deg.C, Humidity: 75% 75% ould be used within 12 months form the time of delivery. 360 uld be kept where no chlorine or sulfur exists in the air. with care to avoid damage or contamination from um pick up is strongly recommended for individual 360

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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