	SPECIE	CATION>			
			C.No. ASDIQ-SPE-024(00)		
To :					
	CUSTOMER'S PRO	DUCT NAME			
	ASDI PRODUCT NAME: SIPM0605A-SERIES				
	CONSENT	CONDIT	IONAL CONSENT		
APPR	OVED	CHEC	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. 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	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 convision			
*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		la diachanac		
*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				
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			
	considered general-purpose	e applications		
If you intend to use the products in	n the following applications, please	e contact our sales		
office.				
Transportation equipment (cars, e	lectric trains, ships, etc.), Public ir	nformation-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 p				
etc., to ensure higher safety.				
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	DWG.No.			
nen ASDI Electronics Co.,Ltd.	ASDIQ-SPE-024(00)	ISSUE		
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CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	SIPM0605A-SERIES	

1.Applications

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

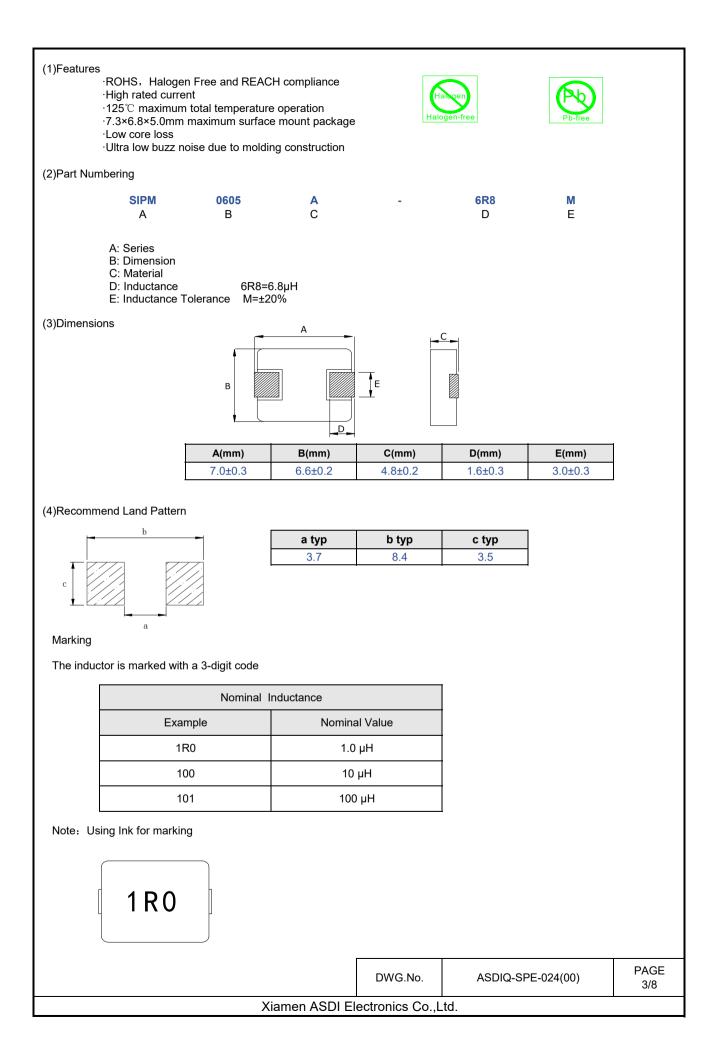
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Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/8
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7.Reliability Tests	Please see (7)	5/8
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3.Manufacturing Location

China

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(5)Electrical Specifications

Íable 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.
SIPM0605A-R47M	0.47	3.90	21.0	20.0
SIPM0605A-R68M	0.68	4.50	18.0	16.5
SIPM0605A-1R0M	1.00	6.60	16.0	12.0
SIPM0605A-1R5M	1.50	10.0	13.0	9.50
SIPM0605A-2R2M	2.20	12.5	11.0	9.00
SIPM0605A-3R3M	3.30	22.0	10.0	8.50
SIPM0605A-4R7M	4.70	29.0	8.00	6.00
SIPM0605A-6R8M	6.80	41.0	6.30	5.80
SIPM0605A-8R2M	8.20	48.0	5.50	5.50
SIPM0605A-100M	10.0	60.0	5.30	4.50
SIPM0605A-150M	15.0	90.0	4.00	3.10
SIPM0605A-220M	22.0	140.0	3.50	2.60
SIPM0605A-330M	33.0	190.0	3.00	2.30
SIPM0605A-470M	47.0	230.0	2.60	2.0

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 %

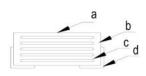
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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

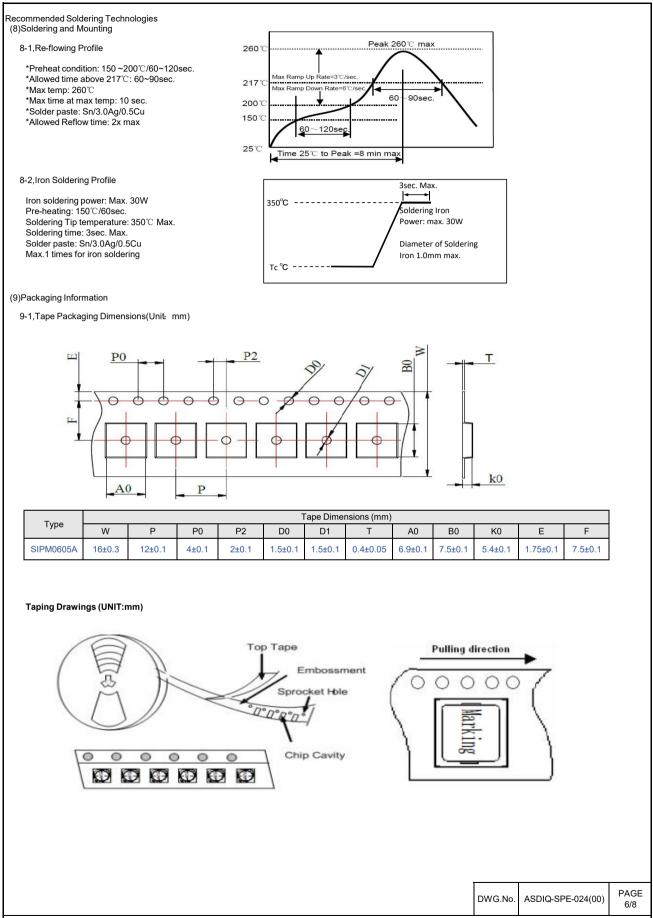
Symbol	Components	Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn



(7)Reliability Tests

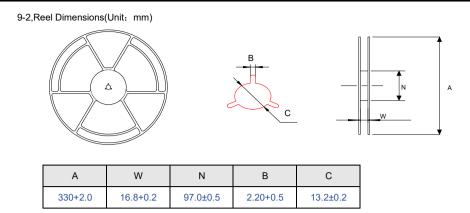
	Mechanical Reliability					
No.	Test item	Performance	Test details			
1	1 Solderability 1. No case deformation or change in apperarance 2. New solder coverage more than 95%		1.Preheat: 155℃±5℃, 60S±2S 2.Solder: lead-free. 3.Temperature: 240℃±5℃, flux 3.0S±0.5S.			
2	Mechanical shock	1. No case deformation 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%	 Reflow: 2times Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles Amplitude: 1.52 mm Directions: X,Y,Z 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	 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 \pm 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	 Temperature: +125 ± 2°C Time: 1000 hours Measured at room temperature after placing for 24±2 hours 			

1	PAGE



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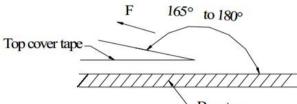
9-3, Packaging Quantity

True	_	Standard Quantity		
Тур	be	Reel	Inner box	Carton box
SIPM0	605A	1000 pcs / Reel	3Reel / box (3000 pcs)	4 Middle boxes, (12000 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

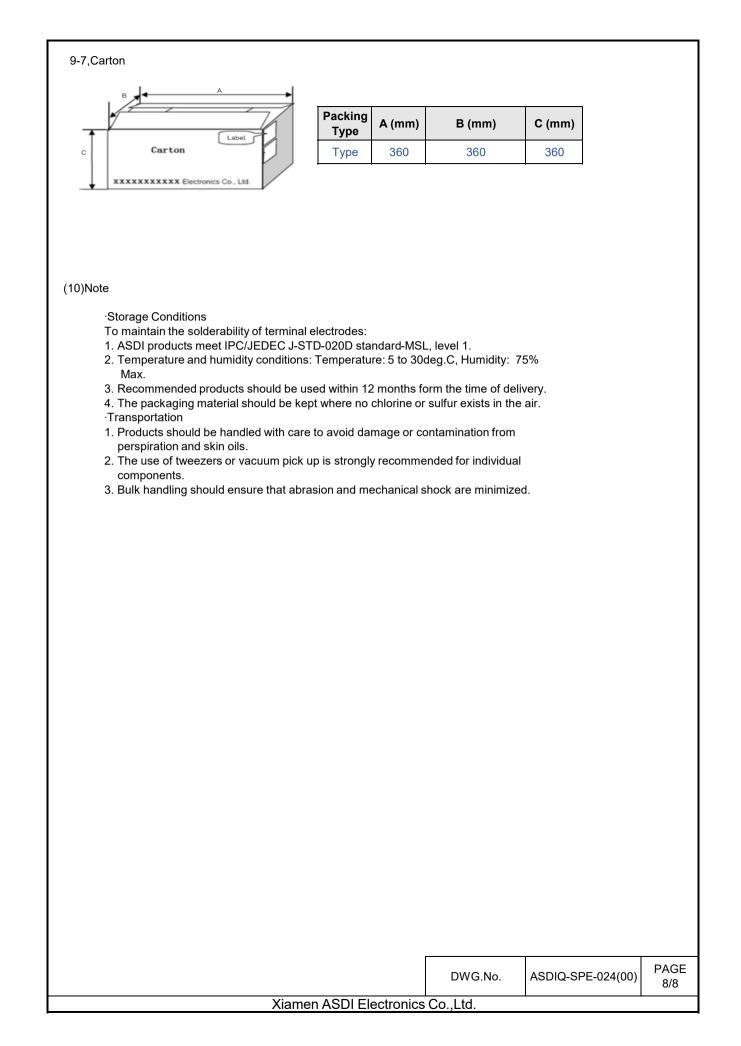
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单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI