	<	SPECIFI	CATION	
To :			SPE Date	C.No. ASDIQ-SPE-024(00)
		CUSTOMER'S PRO	DUCT NAME	
		ASDI PRODUCT NA	AME:	
		SIPM0605A-SERIE	ES	
RECEIPT	CONFIRMATION			
	UNCONDITIONAL C	CONSENT		ONAL CONSENT
	APPR	OVED	CHE	CKED
ASDI SIGI				
		CHECKED		
	APPROVED Xianglong Li	Liang Wang	PREPARED Jiayin Cai	
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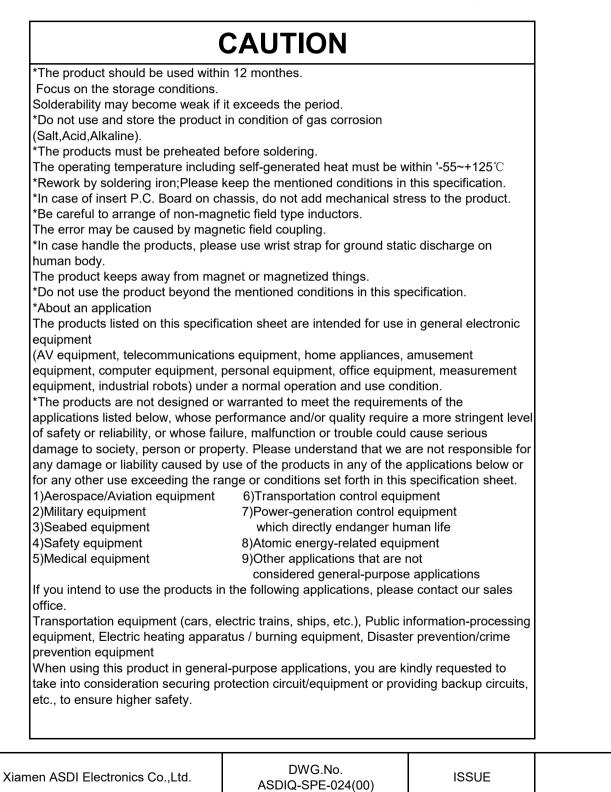
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	May. 15, 2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

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.



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 .

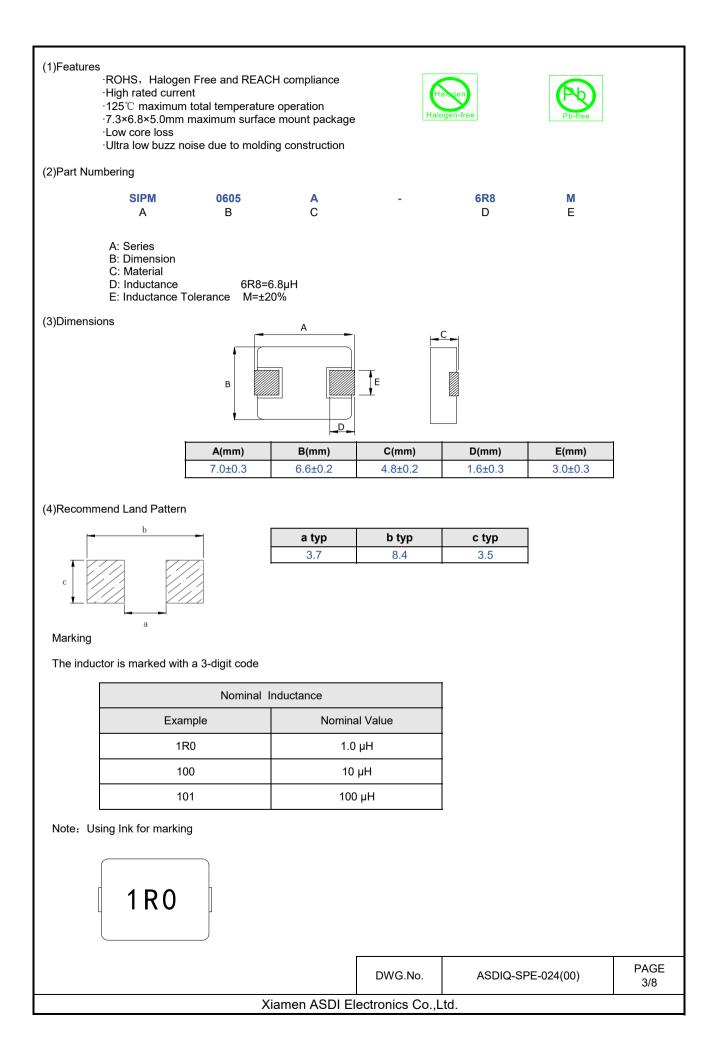
2.INDEX

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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 %

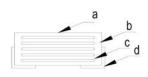
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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

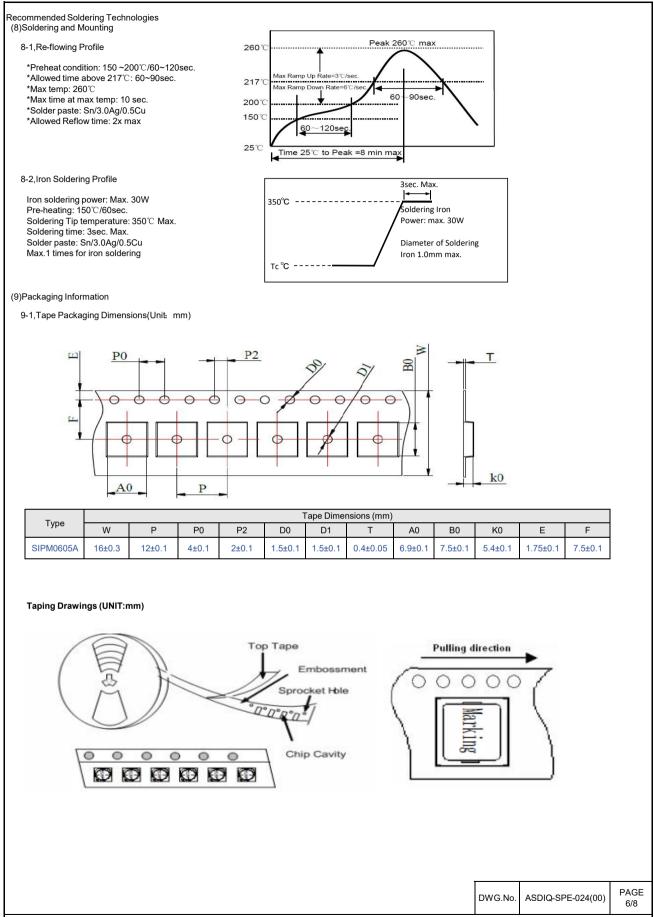
Symbol	Components	Material	
а	Marking	Ink (black)	
b	Core	Alloy Spongy Powder	
с	Wire	Polyamideimide copper wire	
d	Terminal	Copper plated with Sn	



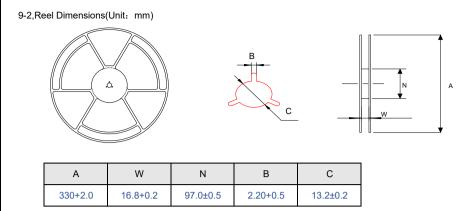
(7)Reliability Tests

	Mechanical Reliability					
No.	Test item	Performance	Test details			
1	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℃ for 30 minutes, last 125 ℃ 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 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 			

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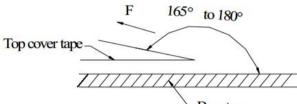
9-3, Packaging Quantity

Turne	Standard Quantity				
Туре	Reel	Inner box	Carton box		
SIPM0605A	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

DWG.No.

