	<specif< td=""><td>ICATION²</td><td>></td></specif<>	ICATION ²	>			
То :		SPE Date	EC.No. ASDIQ-SPE-025(00) e: May. 18, 2022			
	CUSTOMER'S PRO	DUCT NAME				
	ASDI PRODUCT NAME:					
	SIPM0618A-SERIES					
RECEIPT CONFIRMATIC	Ν					
UNCONDITION	IAL CONSENT	CONDI	TIONAL CONSENT			
A	PPROVED	CHE	CKED			
ASDI SIGNATURE						
APPROVEI	D CHECKED	PREPARED				
Xianglong L	i Liang Wang	Jiayin Cai				



Xiamen ASDI Electronics Co.,Ltd.

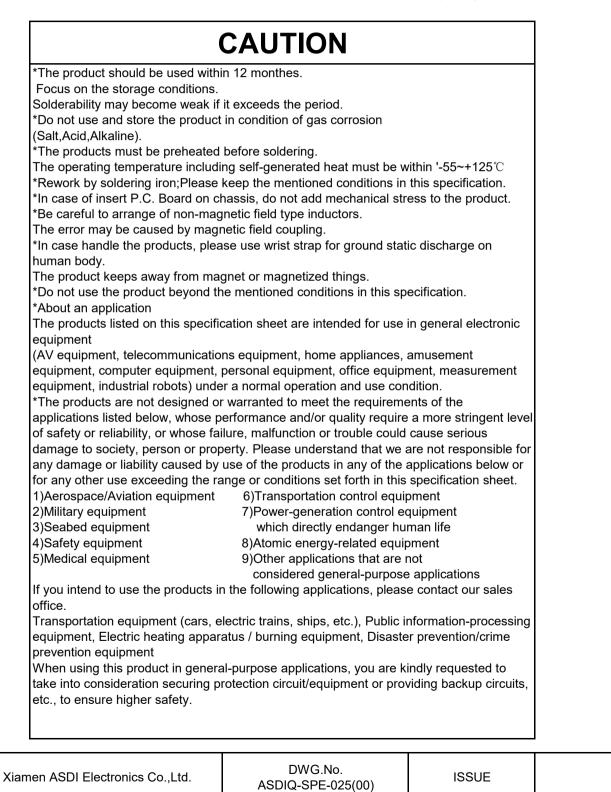
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00		New release	Xianglong Li	Liang Wang	Jiayin Cai

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.
Each Corporation	SIPM0618A-SERIES	

1.Applications

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

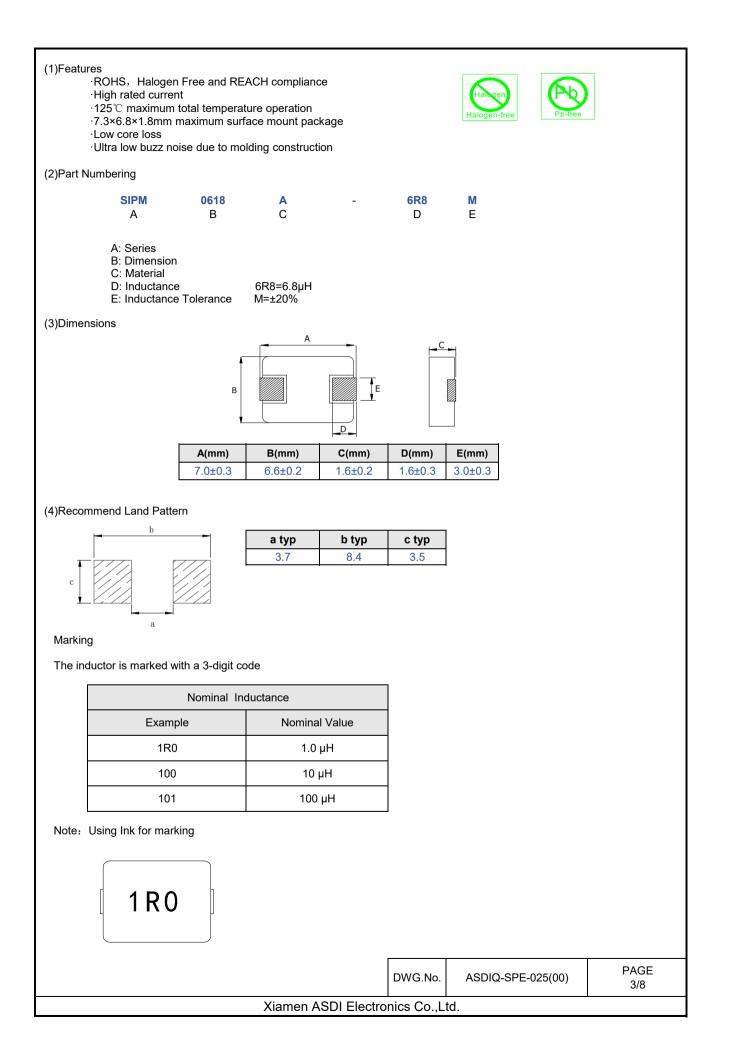
2.INDEX

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3.Manufacturing Location

China

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Xiamen	ASDI Electronics C	o.,Ltd.



(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.
SIPM0618A-R10M	0.10	2.30	38.0	25.0
SIPM0618A-R22M	0.22	3.50	24.0	22.0
SIPM0618A-R47M	0.47	8.40	18.0	11.5
SIPM0618A-R68M	0.68	12.0	16.5	9.5
SIPM0618A-1R0M	1.00	16.0	12.0	8.5
SIPM0618A-1R5M	1.50	26.0	9.2	8.0
SIPM0618A-2R2M	2.20	35.0	8.0	7.0
SIPM0618A-3R3M	3.30	50.0	6.0	4.5
SIPM0618A-4R7M	4.70	62.0	5.0	4.0
SIPM0618A-6R8M	6.80	110	4.5	3.0
SIPM0618A-100M	10.0	155	4.0	2.3
SIPM0618A-220M	22.0	350	2.3	1.8

Note:

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

2. Operating temperature range - 55 $^\circ\text{C}$ to + 125 $^\circ\text{C}$

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 %

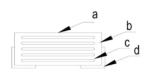
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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

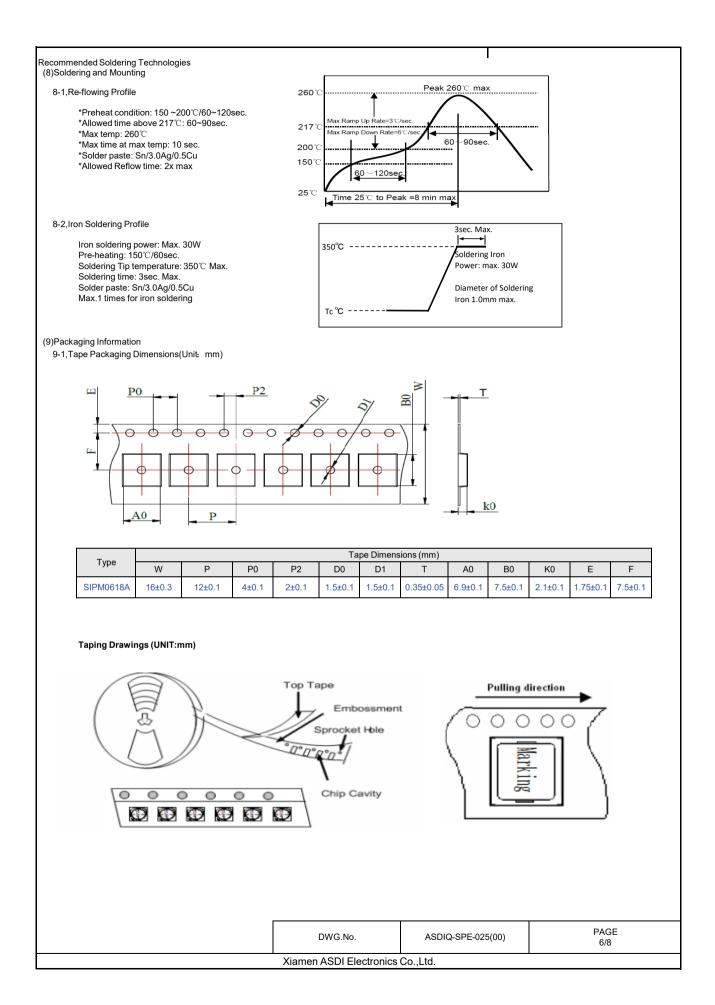
Symbol	Components	Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn

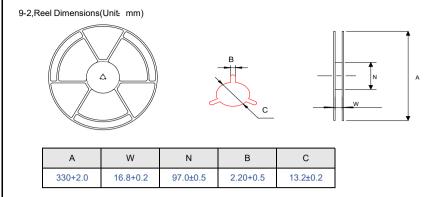


(7)Reliability Tests

	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, 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℃ Time: 1000 hours Measured at room temperature after placing for 24±2 hours 				

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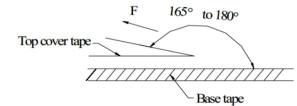
9-3, Packaging Quantity

Turne	Standard Quantity		
Туре	Reel	Inner box	Carton box
SIPM0618A	2000 pcs / reel	3Reel / box (6000 pcs)	4 Middle boxes, (24000 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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		Packing Type	A (mm)	B (mm)	C (mm)
+	Label	Туре	360	360	360
C Carton	onics Co., Ltd.				
)Note					
 To maintain the solderability of ASDI products meet IPC/JEI Temperature and humidity of Max. Recommended products shot The packaging material shot Transportation Products should be handled perspiration and skin oils. The use of tweezers or vacu components. Bulk handling should ensure 	DEC J-STD-020D standard- onditions: Temperature: 5 to ould be used within 12 month and be kept where no chloring with care to avoid damage of um pick up is strongly recon	30deg.C, Humidity: 7 hs form the time of delive or sulfur exists in the pr contamination from nmended for individual	/ery. air.		

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