	<specification></specification>				
			SPEC.No. AS Date: Oc	SDIQ-SPE-188(00) ct.29,2022	
То :					
CUSTOMER'S PRODUCT NAME ASDI PRODUCT NAME: SIPM0615A-SERIES					
	MATION	 	CONDITIONAL CO	<u>DNSENT</u>	
ASDI SIGNATURE	APPROVED	CHECKED	PREPARED	1	
	Xianglong Li	Liang Wang	Jiayin Cai		



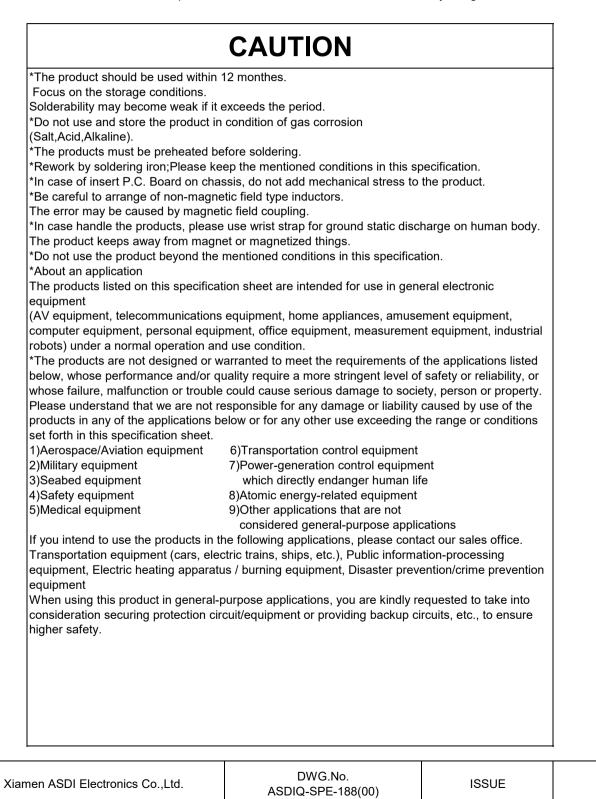
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Oct.29,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

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.
	SIPM0615A-SERIES	

1.INDEX

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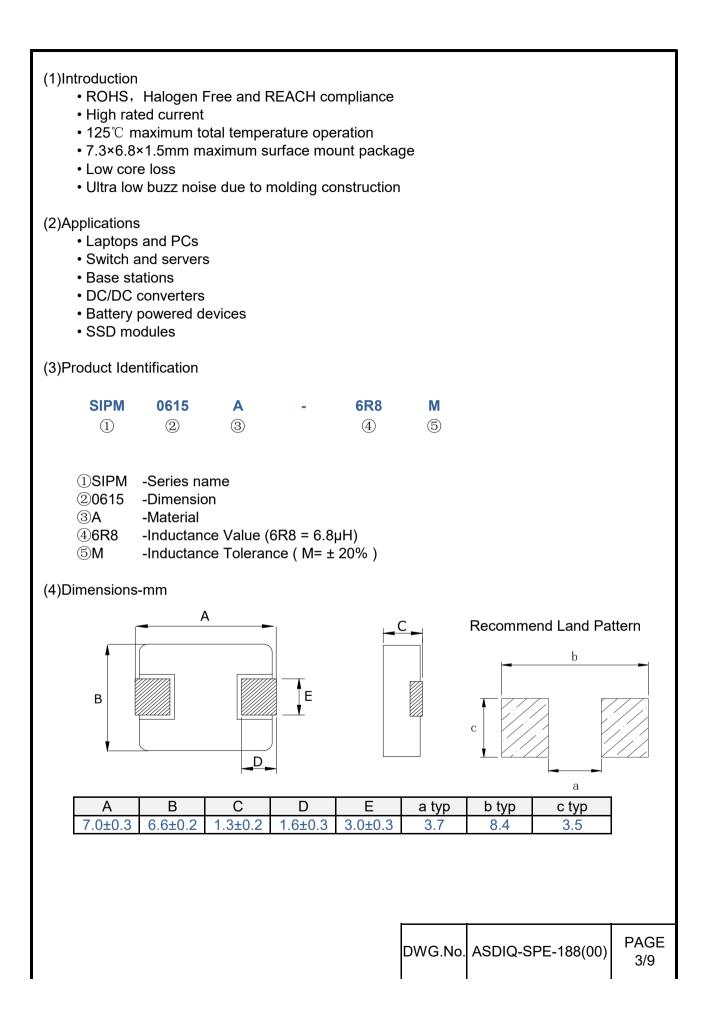
2.Manufacturing Location

China

DWG.NO ASDIQ-SPE-188(00)

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Xiamen ASDI Electronics Co.,Ltd.



Xiamen ASDI Electronics Co.,Ltd.

(5)Marking

The inductor is marked with a 3-digit code

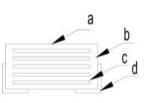
Nominal Inductance			
Example Nominal Value			
1R0	1.0 µH		
100	10 µH		
101	100 µH		

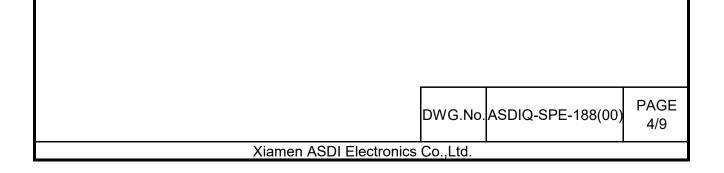
Note: Using Ink for marking



(6)Structure and Components

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





(7)Specification

	Inductance	DC Resistance	Saturation Current	Heating Rating Current
Part No.	L0 (µH)	DCR (mΩ)	Isat (A)	Irms (A)
	±20 %, 100 kHz, 1V	MAX.	Typ(Max)	Typ (Max)
SIPM0615A-R47M	0.47	8.5	16.0	10.0
SIPM0615A-R56M	0.56	11	14.0	9.0
SIPM0615A-R68M	0.68	12	12.0	8.5
SIPM0615A-R82M	0.82	17	10.0	8.0
SIPM0615A-1R0M	1.0	21	9.0	6.0
SIPM0615A-2R2M	2.2	54	7.0	3.8
SIPM0615A-3R3M	3.3	63	5.5	3.5
SIPM0615A-4R7M	4.7	85	5.0	3.2
SIPM0615A-6R8M	6.8	135	4.0	2.5
SIPM0615A-100M	10.0	175	3.0	2.0

Notes

1. All test data is referenced to 25 $^\circ\text{C}$ 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.

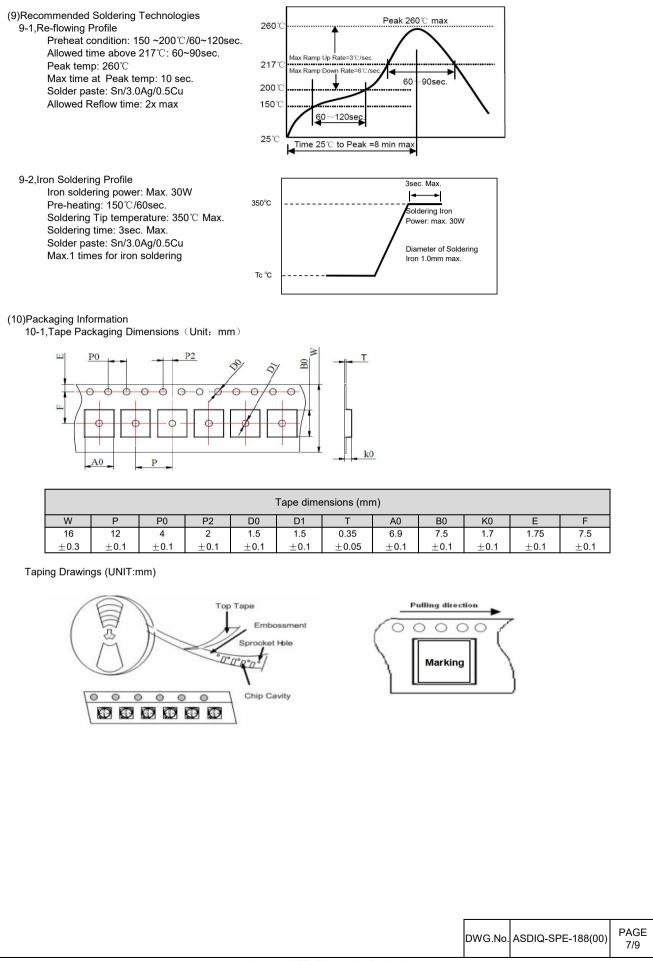
Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions

all affect the part temperature. Part temperature should be verified in the end application.

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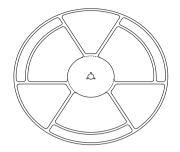
(8)Reliability Tests

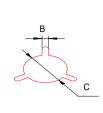
	Mechanical Reliability			
Test item	Specification and Requirement	Test Method		
Solderability	 No case deformation New solder coverage More than 95% or change in visual 	1.Preheat: 155℃±5℃,60S±2S 2.Tin: lead-free. 3.Temperature:240℃±5℃, flux3.0S±0.5S.		
Mechanical shock	 No case deformation or change in visual △L/Lo≦±10% 	 Acceleration: 100G Pulse time:: 6ms 3 times in each positive and negative direction of 3 mutual perpendicular directions 		
Mechanical vibration	 No case deformation or change in visual △L/Lo≦±10% 	 Reflow: 2times Frequency: 10HZ~50HZ~10HZ, 20 Min/Cycles Amplitude: 1.52 mm±10% Directions: X,Y,Z Time: 12 cycle / direction 		
	Endurance Reliabi	lity		
Test item	Specification and Requirement	Test Method		
Thermal Shock	Inductance change: Within ± 10% Without distinct damage in visual	 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 		
		1.Reflow 2 times, 2.85℃±3℃,85%±3%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours		
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in visual	2.85℃±3℃,85%±3%RH,1000 hours 3.Measured at room temperature after		
-	Within ± 10% Without distinct damage	2.85℃±3℃,85%±3%RH,1000 hours 3.Measured at room temperature after		

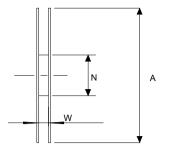


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10-2,Reel Dimensions (Unit: mm)







А	W	Ν	В	С
330+2.0	16.8+0.2	97±0.5	2.2+0.5	13.0±0.2

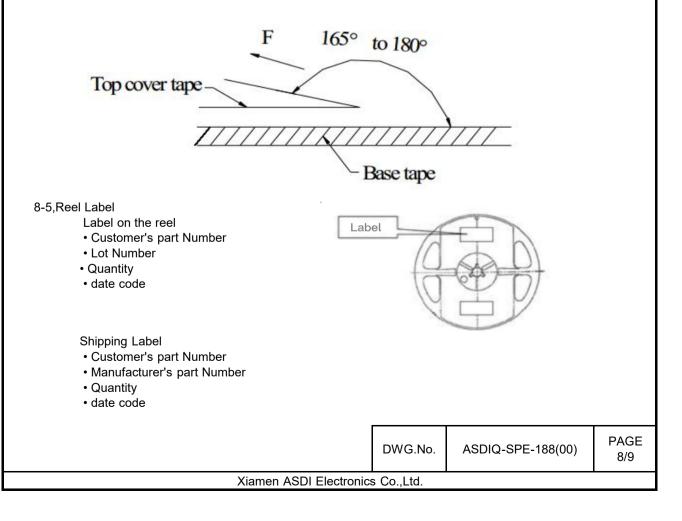
10-3, Packaging Quantity

Standard Quantity			
Reel Inner box Carton box			
2000 pcs / reel	3Reel / box (6000 pcs)	4 Middle boxes, (24000 pcs)	

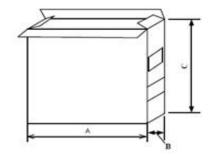
10-4,Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N

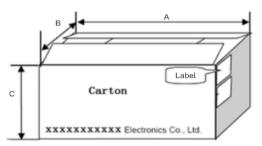


10-6,Inner Box



Packaging Type	A(mm)	B(mm)	C(mm)
Inner box	335	70	340

10-7,Inner Box



Packing Type	A (mm)	B (mm)	C (mm)
Туре	360	360	360

			DACE
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