			~ . —			
<specification></specification>						
				SPEC.No. Date:	ASDIQ-SPE-189(00) Oct.29,2022	
То :						
		ER'S PROI		ME		
		ODUCT N/ /0610A-SE				
RECEIPT CONFIRMAT	ION					
	DNAL CONSENT			CONDITIONAL	. CONSENT	
	APPROVED			CHECKED		
ASDI SIGNATURE						
	APPROVED	CHEC	KED	PREPARED		
	Xianglong Li	Liang	Wang	Jiayin Cai		



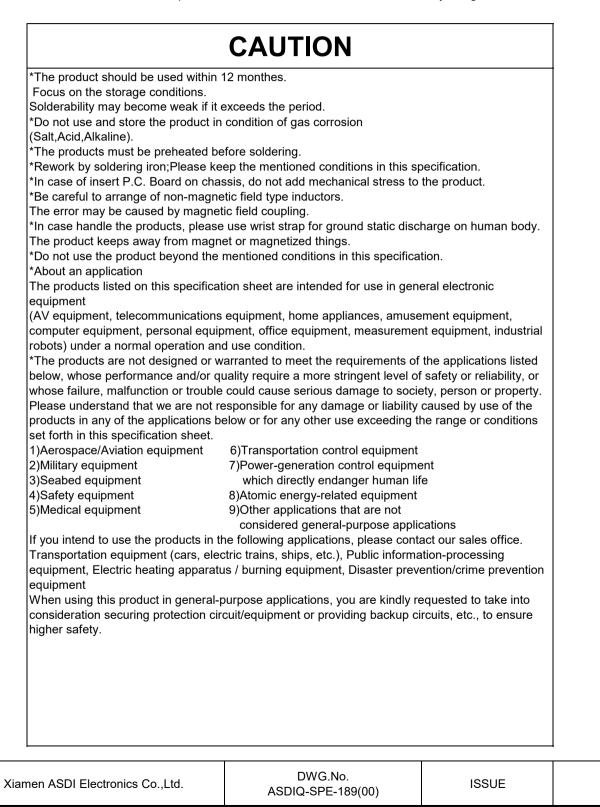
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Oct.29,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

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.
	SIPM0610A-SERIES	

1.INDEX

x		
Listed item	Attachment &Tables	Page
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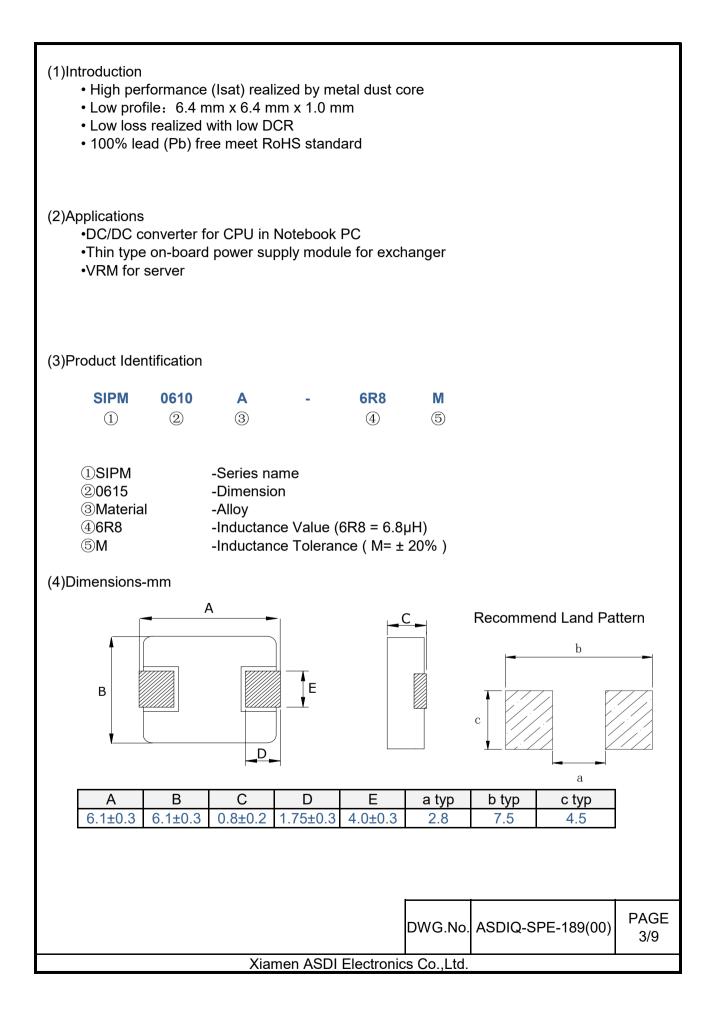
2.Manufacturing Location

China

DWG.NO ASDIQ-SPE-189(00)

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Xiamen ASDI Electronics Co.,Ltd.



(5)Marking

The inductor is marked with a 3-digit code

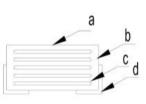
Nominal Inductance				
Example Nominal Value				
1R0 1.0 µH				
100 10 µH				
101 100 µH				

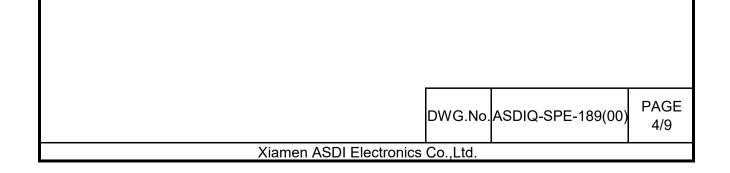




(6)Structure and Components

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 Isat (A)		Heating Rating Current	
Part No.	L0 (µH)	DCR (mΩ)			Irms (A)	
	±20 %, 100 kHz, 1V	MAX.	Тур	Max	Тур	Max
SIPM0610A-4R7M	4.7	172	2.8	2.5	2.2	2.0
SIPM0610A-6R8M	6.8	197	2.5	2.2	2.0	1.8
SIPM0610A-100M	10.0	310	2.1	1.9	1.6	1.4

Notes

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 $^\circ$ C under worst case operating conditions.

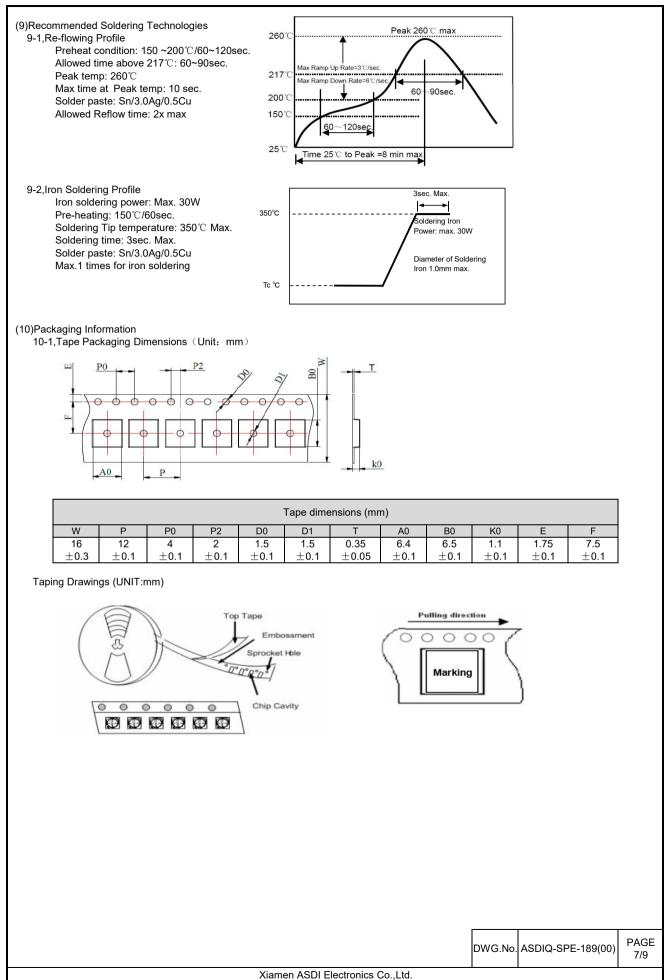
Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions

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

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Xiamen ASDI Electronics Co.,Ltd.			

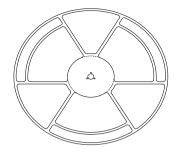
(8)Reliability Tests

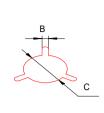
Mechanical Reliability				
Test item	Specification and Requirement	Test Method		
Solderability	 No case deformation New solder coverage More than 95% or change in visual 	1.Preheat: 155℃±5℃,60S±2S 2.Tin: lead-free. 3.Temperature:240℃±5℃, flux3.0S±0.5S.		
Mechanical shock	 No case deformation or change 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	 ge 1. First -55°C for 30 minutes,last 125°C for 30 minutes as 1 cycle. Go through 1000 cycles. 2. Max transfer time is 3 minutes. 3. Measured at room temperature after placing for 24±2 hours 		
Humidity Resistance	Inductance change: Within ± 10% Without distinct damage in visual	1.Reflow 2 times, 2.85℃±3℃,85%±3%RH,1000 hours 3.Measured at room temperature after placing for 24±2 hours		
Low	Inductance change: Within ± 10% Without distinct damage in visual	Inductance change: Within ± 10% Without distinct damage in visual 1. Temperature: -55 ± 2℃ 2. Time: 1000 hours		
temperature storage		3. Measured at room temperature after placing for 24±2 hours		

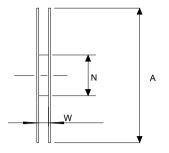


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10-2,Reel Dimensions (Unit: mm)







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

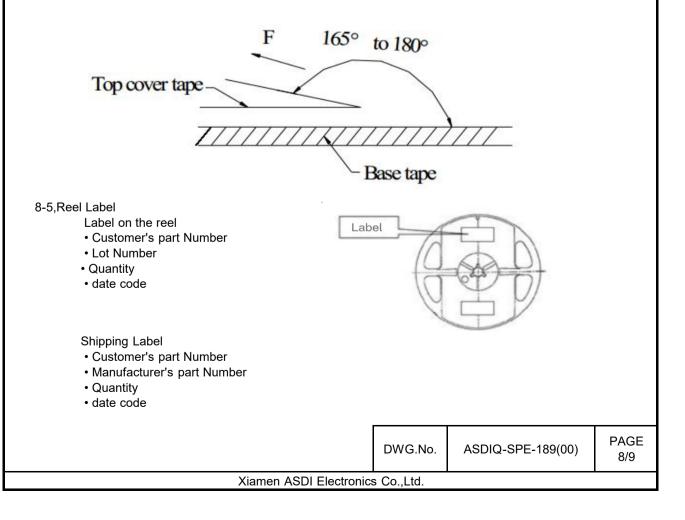
10-3, Packaging Quantity

Standard Quantity				
Reel Inner box Carton box				
3000 pcs / reel	3Reel / box (9000 pcs)	4 Middle boxes, (36000 pcs)		

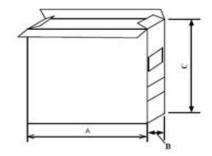
10-4,Peel force of top cover tape

The peel speed shall be about 300mm/minute

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

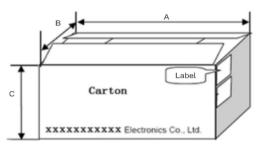


10-6,Inner Box



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

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Xiamen ASDI Electronics Co.,Ltd.				

单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI