	<specif< td=""><td>ICATION²</td><td>></td></specif<>	ICATION ²	>			
То :		SPE Date	EC.No. ASDIQ-SPE-015(02)			
	CUSTOMER'S PRC		I			
	COSTOMENOTING					
	ASDI PRODUCT N	AME:				
	SIPM0410A-SERII	ES				
RECEIPT CONFIRMATION	CONSENT		TIONAL CONSENT			
APP	ROVED	CHE	CKED			
ASDI SIGNATURE						
ASDI SIGNATORE	CHECKED	PREPARED				
Xianglong Li	Liang Wang	Jiayin Cai				



Xiamen ASDI Electronics Co.,Ltd.

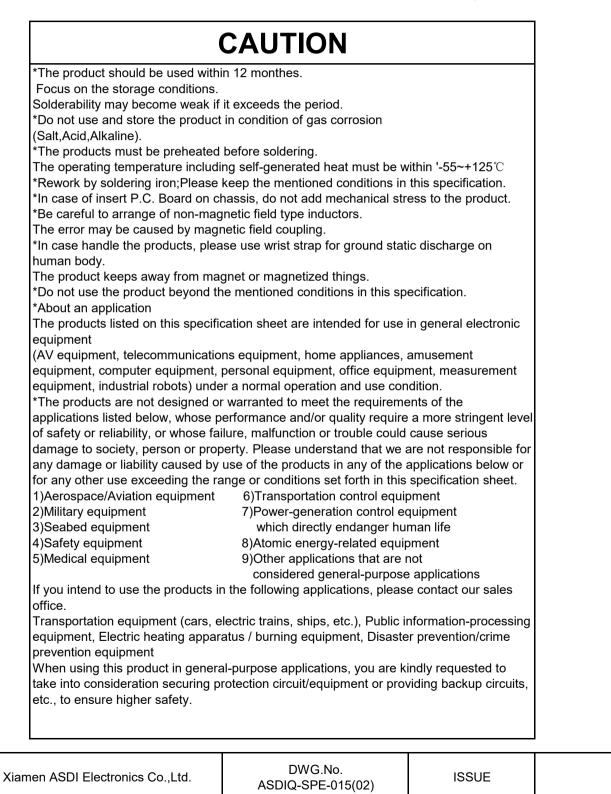
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Dec.28,2019	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	Oct.9,2020	Added 2R2 and 4R7	Xianglong Li	Liang Wang	Jiayin Cai
02	Mar. 24, 2021	Added 6R8	Xianglong Li	Liang Wang	Jiayin Cai

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	SIPM0410A-SERIES			

1.Applications

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

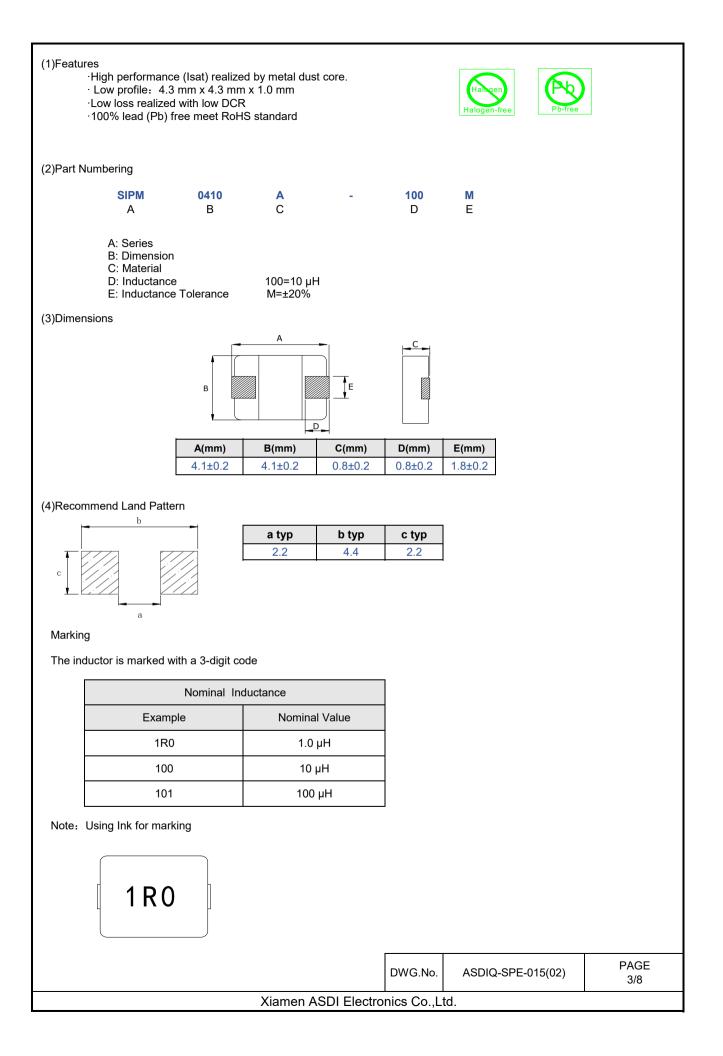
2.INDEX

Listed item	Attachment&Tables	Page
1.Features	Please see (1)	3/8
2.Part Numbering	Please see (2)	3/8
3.Dimensions	Please see (3)	3/8
4.Recommend Land Pattern	Please see (4)	3/8
5.Electrical Specifications	Please see (5)	4/8
6.Structure and Components	Please see (6)	5/8
7.Reliability Tests	Please see (7)	5/8
8.Soldering and Mounting	Please see (8)	6/8
9.Packaging Information	Please see (9)	6/8
10.Note	Please see (10)	8/8

3.Manufacturing Location

China

	DWG.No.	ASDIQ-SPE-015(02)	PAGE 2/8		
Xiamen ASDI Electronics Co.,Ltd.					



(5)Electrical Specifications Table 1

	Inductance	ce DC Resistance Saturation Current		Heating Rating Current			
ASDI Part Number	L0(µH)	DCR (mΩ)	l sa	I sat(A)		Irms (A)	
	±20% 100 kHz/1V	MAX	TYP.	MAX	TYP	MAX	
SIPM0410A-2R2M	2.20	100	4.3	3.50	3.4	3.0	
SIPM0410A-4R7M	4.70	160	2.5	2.10	2.6	2.3	
SIPM0410A-6R8M	6.80	255	2.2	1.85	2.0	1.8	
SIPM0410A-100M	10.00	336	1.8	1.60	1.5	1.3	

Note:

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 %

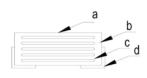
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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.

	DWG.No.	ASDIQ-SPE-015(02)	PAGE 4/8	
Xiamen ASDI Electronics Co.,Ltd.				

(6)Structure and Components

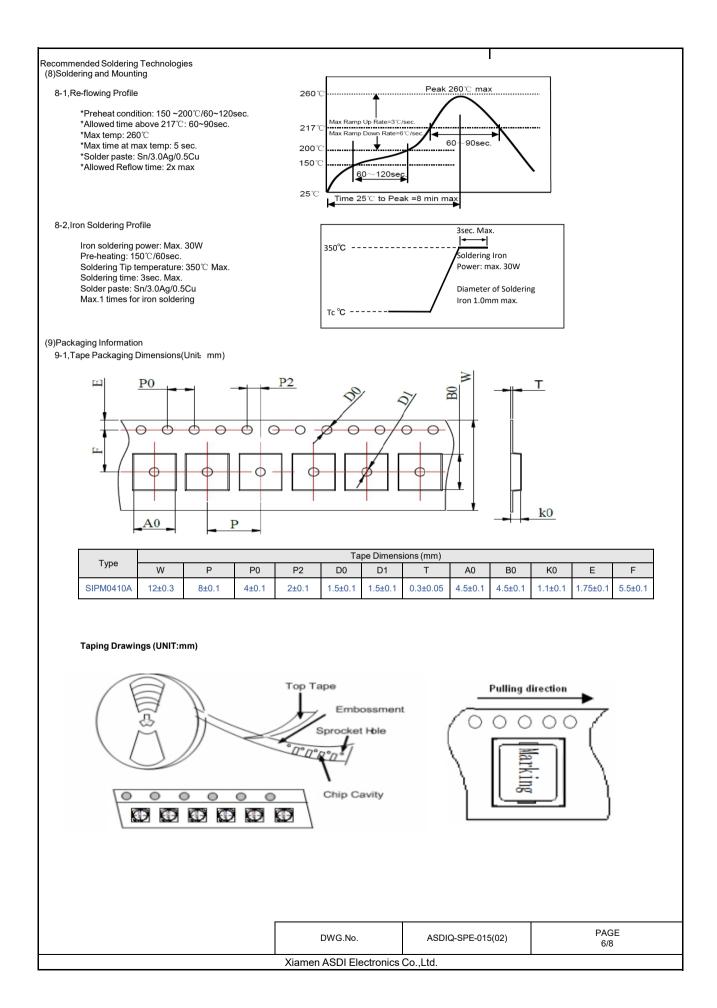
Symbol Components		Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn

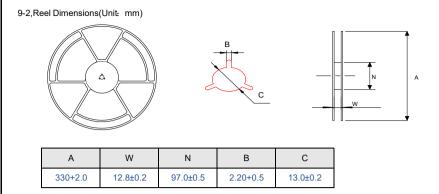


(7)Reliability Tests

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%	 Acceleration: 100G Pulse time: 6ms 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%	1. Reflow: 2times 2. Frequency: 10HZ~55HZ~10HZ, 20 Min/Cycles 3. Amplitude: 1.52 mm 4. Directions: X,Y,Z 5. 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 ± 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℃ 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 	

	DWG.No.	ASDIQ-SPE-015(02)	PAGE 5/8	
Xiamen ASDI Electronics Co.,Ltd.				





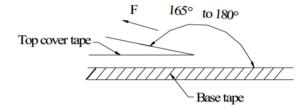
9-3, Packaging Quantity (PCS)

Tures	Standard Quantity			
Туре	Reel	Inner box	Carton box	
SIPM0410A	5000 pcs / reel	2Reel / box (10000 pcs)	4 Middle boxes, (40,000 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



	DWG.No.	ASDIQ-SPE-015(02)	PAGE 7/8	
Xiamen ASDI Electronics Co.,Ltd.				

T		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 shouedrapport of the solution of th	DEC J-STD-020D standard- onditions: Temperature: 5 to ould be used within 12 mont and be kept where no chlorin with care to avoid damage um pick up is strongly recor	o 30deg.C, Humidity: 7 ths form the time of deliv he or sulfur exists in the or contamination from mmended for individual	very. air.		

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