	<specification></specification>				
To :			SPE Date	C.No. ASDIQ-SPE-054(00) e: Jun. 21, 2022	
-		CUSTOMER'S PRO	DUCT NAME		
		OUT OMENO THO			
г		ASDI PRODUCT NA	AME:		
		SIPM0402C-SERIE	ES		
RECEIPT CONFIRMA	TION				
UNCONDIT	IONAL C	ONSENT		TIONAL CONSENT	
	APPROVED CHECKED				
ASDI SIGNATURE					
APPRO		CHECKED	PREPARED		
Xianglor	ng Li	Liang Wang	Jiayin Cai		



Xiamen ASDI Electronics Co.,Ltd.

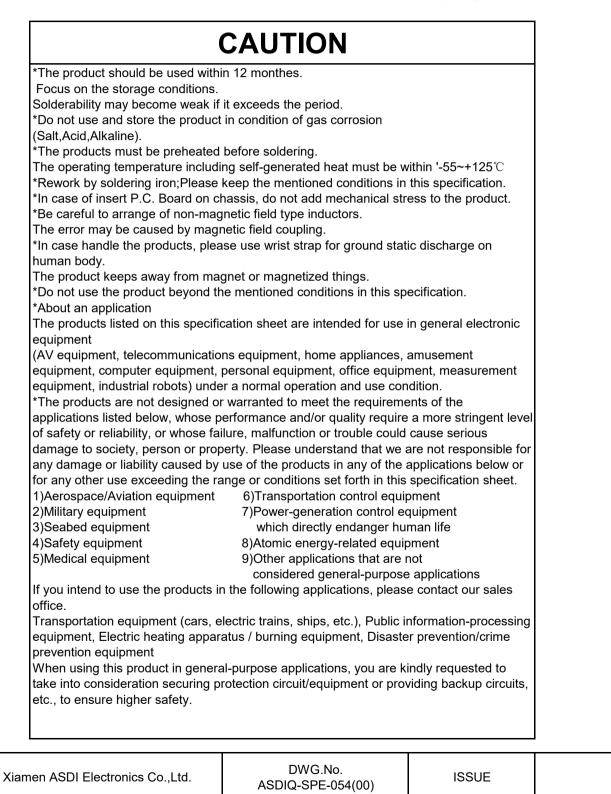
REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Jun. 21, 2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

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.
Each Corporation	SIPM0402C-SERIES	

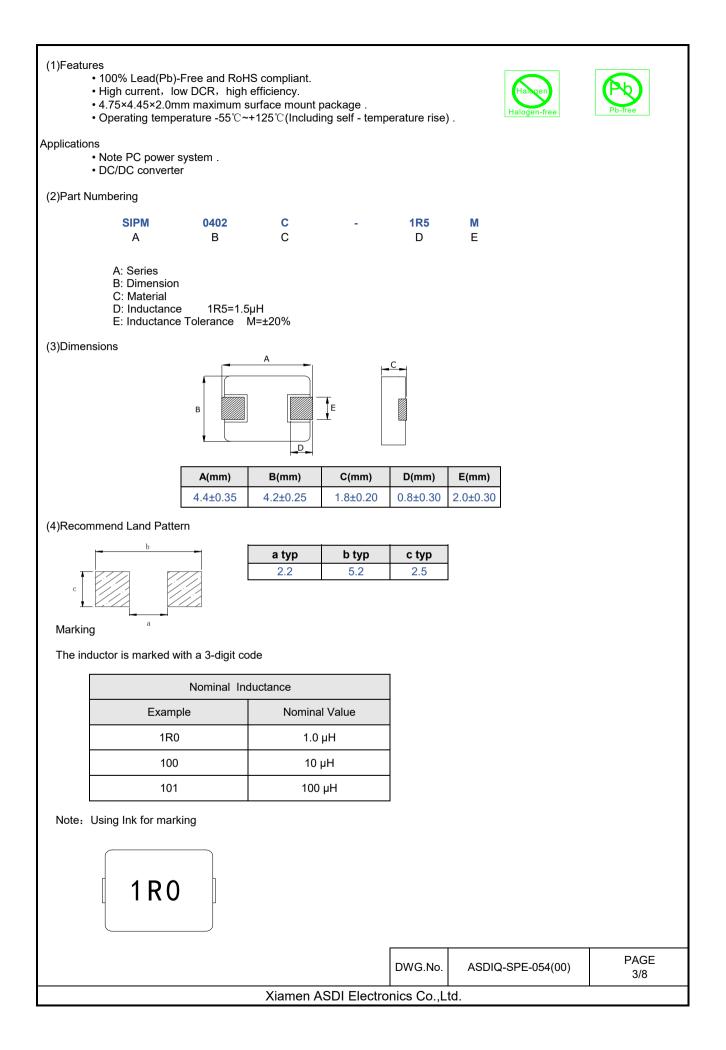
1.INDEX

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2.Manufacturing Location

China

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(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.
SIPM0402C-R33M	0.33	8.60	18.0	10.0
SIPM0402C-R47M	0.47	14.00	12.0	8.00
SIPM0402C-R68M	0.68	19.00	10.0	7.00
SIPM0402C-1R0M	1.00	27.00	8.50	5.00
SIPM0402C-1R5M	1.50	42.00	7.00	4.50
SIPM0402C-2R2M	2.20	61.00	6.00	4.00
SIPM0402C-3R3M	3.30	76.00	4.00	3.50
SIPM0402C-4R7M	4.70	105.0	3.50	2.60
SIPM0402C-6R8M	6.80	172.0	2.80	2.10
SIPM0402C-100M	10.00	243.0	2.30	1.80

Notes:

- Irms (A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)
- 3. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %

4. 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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^{1.} All test data is referenced to 25 °C ambient

(6)Structure and Components

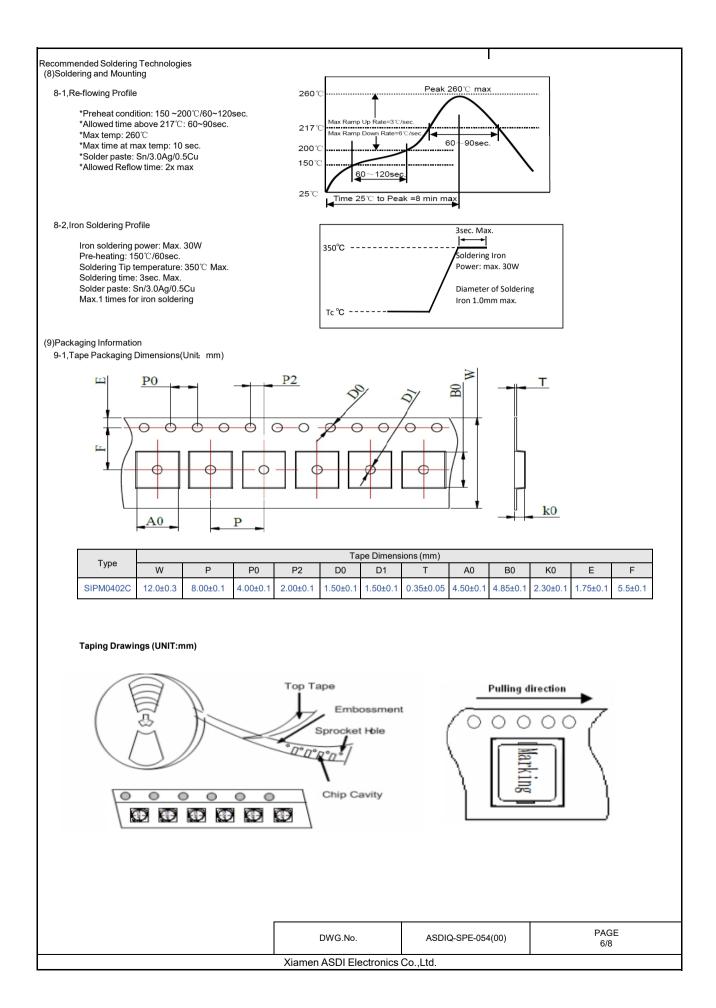
No.	Components	Material
1	Core	Carbonyl Powder
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+SnPlating)
4	Paint	Epoxy resin
5	Ink	Halogen-free ketone

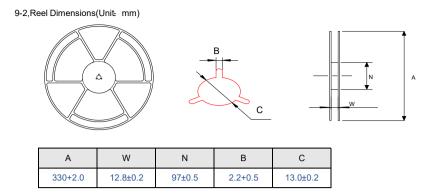


(7)Reliability Tests

	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 ± 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	1. Temperature: +125 ± 2℃ 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours	

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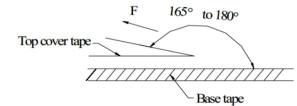
9-3, Packaging Quantity

Turne	Standard Quantity			
Туре	Reel	Inner box	Carton box	
SIPM0402C	3000 pcs / reel	4Reel / box (12000 pcs)	4 Middle boxes, (48,000 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

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 or Max. Recommended products shot The packaging material shou 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 f uld be used within 12 mon Id be kept where no chlori with care to avoid damage um pick up is strongly reco	to 30deg.C, Humidity: 75 hths form the time of deliv ne or sulfur exists in the e or contamination from ommended for individual	/ery. air.		

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