<specification></specification>					
	SPECIFI				
То :		SPE Date	C.No. ASDIQ-SPE-055(00) 9: May.19,2020		
	CUSTOMER'S PRO	DUCT NAME			
	ASDI PRODUCT NAME:				
	SIPM0502C-SERIES				
1 1					
RECEIPT CONFIRMATION					
	CONSENT	CONDIT	IONAL CONSENT		
APPR	APPROVED CHECKED				
ASDI SIGNATURE					
APPROVED	CHECKED	PREPARED			
Xianglong Li	Liang Wang	Jiayin Cai			



Г

Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Mar.28,2019	New release	Xianglong Li	Liang Wang	Jiayin Cai
01	May.19,2020	Increased inductance value 220	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.

	CAUTION	
*The product should be used withi	in 12 monthes	
Focus on the storage conditions.		
Solderability may become weak if	it exceeds the period	
*Do not use and store the product	•	
(Salt,Acid,Alkaline).	In condition of gas convision	
*The products must be preheated	hoforo coldoring	
		ithin ' 55~±125°∩
The operating temperature includi		
*Rework by soldering iron;Please	•	•
*In case of insert P.C. Board on cl		ess to the product.
*Be careful to arrange of non-mag		
The error may be caused by mag		la diachanac
*In case handle the products, plea	ise use wrist strap for ground stat	ic discharge on
human body.		
The product keeps away from mag		ifi ti
*Do not use the product beyond th	ie mentionea conditions in this sp	ecilication.
*About an application		
The products listed on this specific	cation sheet are intended for use	in general electronic
equipment		
(AV equipment, telecommunicatio		
equipment, computer equipment,		
equipment, industrial robots) unde		
*The products are not designed or		
applications listed below, whose p		
of safety or reliability, or whose fai		
damage to society, person or prop		
any damage or liability caused by		
for any other use exceeding the ra	-	-
1)Aerospace/Aviation equipment	6)Transportation control equip	oment
2)Military equipment	7)Power-generation control ec	
3)Seabed equipment	which directly endanger hu	man life
4)Safety equipment	8)Atomic energy-related equip	oment
5)Medical equipment	9)Other applications that are r	
	considered general-purpose	e applications
If you intend to use the products in		
office.	· · ·	
Transportation equipment (cars, e	lectric trains, ships, etc.), Public ir	nformation-processing
equipment, Electric heating appar		
prevention equipment		
When using this product in genera	al-purpose applications, you are ki	indly requested to
take into consideration securing p		
etc., to ensure higher safety.		
,		
en ASDI Electronics Co.,Ltd.	DWG.No.	ISSUE
	ASDIQ-SPE-055(00)	

CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
Each Corporation	SIPM0502C-SERIES	

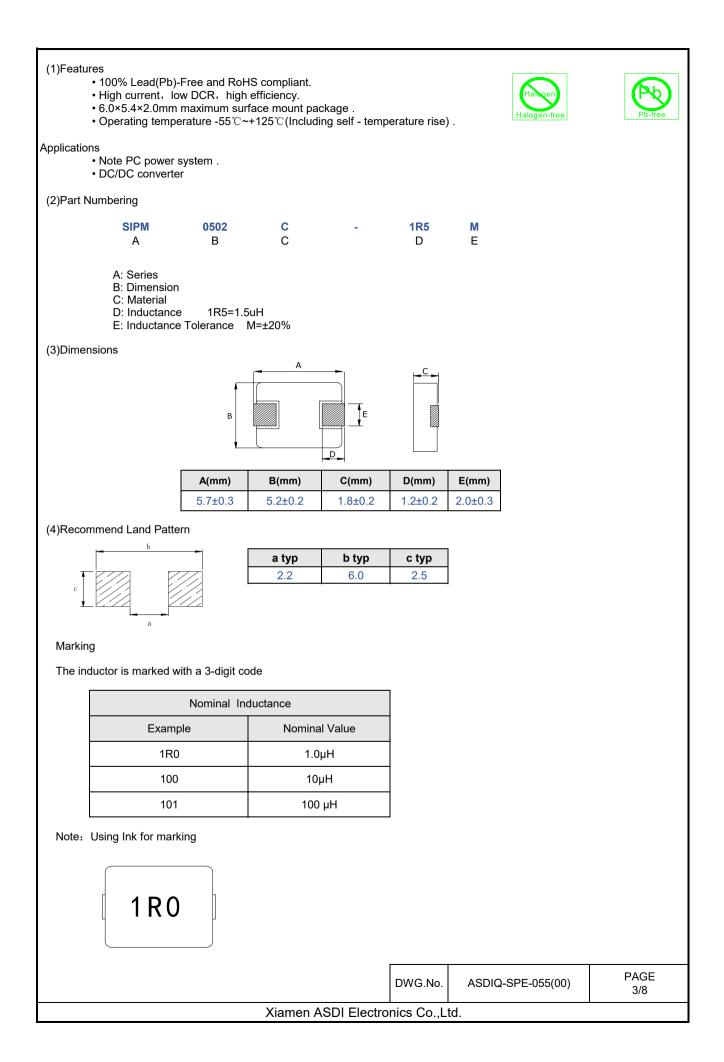
1.INDEX

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

2.Manufacturing Location

China

	DWG.No.	ASDIQ-SPE-055(00)	PAGE 2/8	
Xiamen ASDI Electronics Co.,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.
SIPM0502C-R22M	0.22	5.50	25.0	15.0
SIPM0502C-R33M	0.33	7.30	21.3	12.0
SIPM0502C-R47M	0.47	8.60	18.0	11.5
SIPM0502C-R68M	0.68	12.4	12.8	10.0
SIPM0502C-1R0M	1.00	20.0	13.7	7.00
SIPM0502C-1R5M	1.50	30.5	9.80	5.50
SIPM0502C-2R2M	2.20	50.0	9.00	4.20
SIPM0502C-3R3M	3.30	76.0	7.30	3.30
SIPM0502C-4R7M	4.70	116	5.00	2.80
SIPM0502C-6R8M	6.80	150	3.80	2.40
SIPM0502C-100M	10.00	199	3.40	2.30
SIPM0502C-220M	22.00	390	1.80	1.50

Notes:

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

	DWG.No.	ASDIQ-SPE-055(00)	PAGE 4/8	
Xiamen ASDI Electronics Co.,Ltd.				

(6)Structure and Components

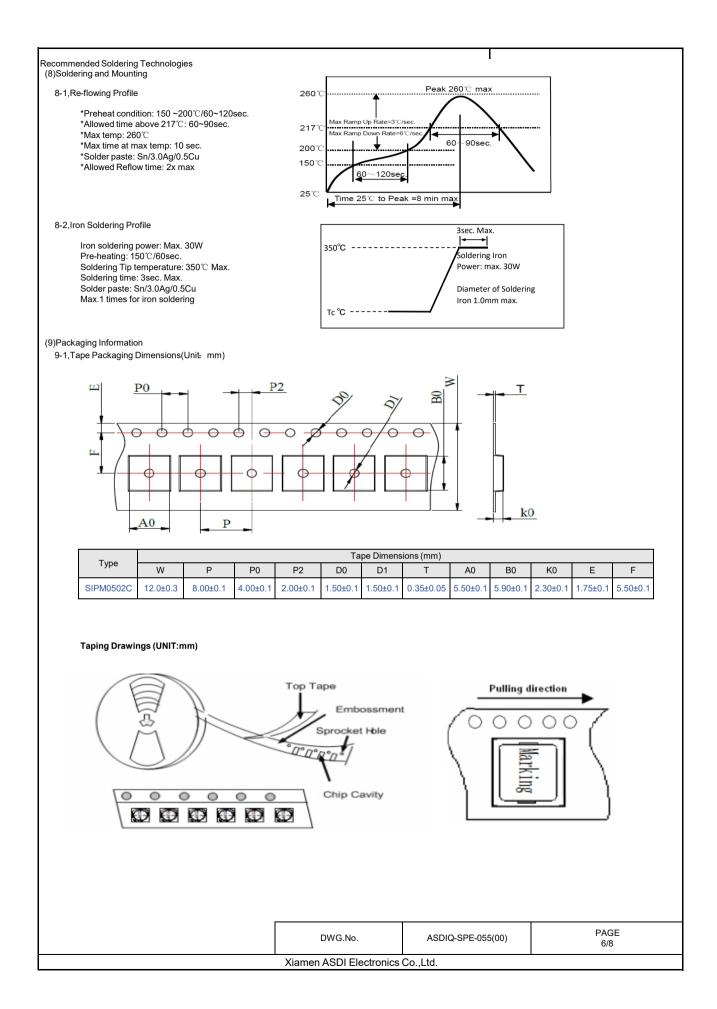
No.	Components	Material
1	Core	Carbonyl Powder
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+SnPlating)
4	Paint	Epoxy resin
5	Ink	Halogen-free ketone



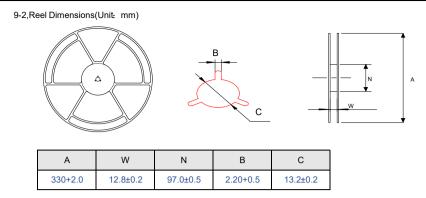
(7)Reliability Tests

	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%	Acceleration: 100G Pulse time:: 6ms S 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℃ for 30 minutes, last 125 ℃ 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℃ 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°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours		

DWG.No. ASDIQ-SPE-055(00) PAGE 5/8					
Xiamen ASDI Electronics Co.,Ltd.					



Downloaded From Oneyac.com



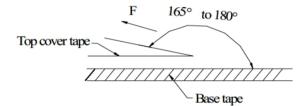
9-3, Packaging Quantity

Turne	Standard Quantity		
Туре	Reel	Inner box	Carton box
SIPM0502C	2000 pcs / reel	4Reel / box (8000 pcs)	4 Middle boxes, (32,000 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 $\ensuremath{\mathsf{N}}$



9-5,Reel Label

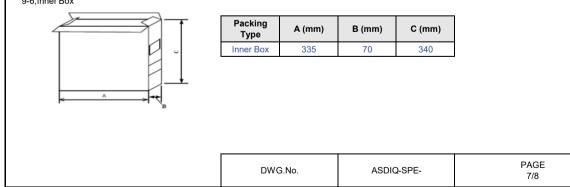
Label on the reel

·Lot Number ·Quantity ·Date code

·Customer's part Number

- Label
- Shipping Label ·Customer's part Number ·Manufacturer's part Number ·Quantity
- ·Date code

9-6,Inner Box



Xiamen ASDI Electronics Co.,Ltd.

9-7,Carton					
	A	Packing Type	A (mm)	B (mm)	C (mm)
	Label	Туре	360	360	360
c Carton	onics Co., Ltd.				
(10)Note					
 Storage Conditions To maintain the solderability of t 1. ASDI products meet IPC/JED 2. Temperature and humidity co Max. 3. Recommended products shout 4. The packaging material shout Transportation 1. Products should be handled to perspiration and skin oils. 2. The use of tweezers or vacuut components. 3. Bulk handling should ensure for the solution of th	DEC J-STD-020D standard-MS onditions: Temperature: 5 to 30 uld be used within 12 months to ld be kept where no chlorine of with care to avoid damage or of um pick up is strongly recomm	Odeg.C, Humidity: 75 form the time of deliv r sulfur exists in the contamination from ended for individual	rery. air.		
Г		1			PAGE

单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI