<	<specif< th=""><th>ICATION:</th><th>></th></specif<>	ICATION:	>			
		SPE Date	C.No. ASDIQ-SPE-033(00) 9: May. 17, 2022			
То :						
	CUSTOMER'S PRO					
	ASDI PRODUCT NAME: SIPM1707A-SERIES					
RECEIPT CONFIRMATION						
UNCONDITIONAL (UNCONDITIONAL CONSENT CONDITIONAL CONSENT					
APPROVED CHECKED						
ASDI SIGNATURE						
APPROVED	CHECKED	PREPARED				
Xianglong Li	Liang Wang	Jiayin Cai				



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Xiamen ASDI Electronics Co.,Ltd.

REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	May. 17, 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.

	CAUTION			
*The product should be used withi	n 12 monthes			
Focus on the storage conditions.				
Solderability may become weak if it exceeds the period.				
*Do not use and store the product in condition of gas corrosion				
(Salt,Acid,Alkaline).	in condition of gas contration			
*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		ia diaabarara ara		
*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	quipment		
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 i	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.		C		
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en ASDI Electronics Co.,Ltd.	DWG.No.	ISSUE		
	ASDIQ-SPE-033(00)			

CUSTOM	IER
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1.Applications

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

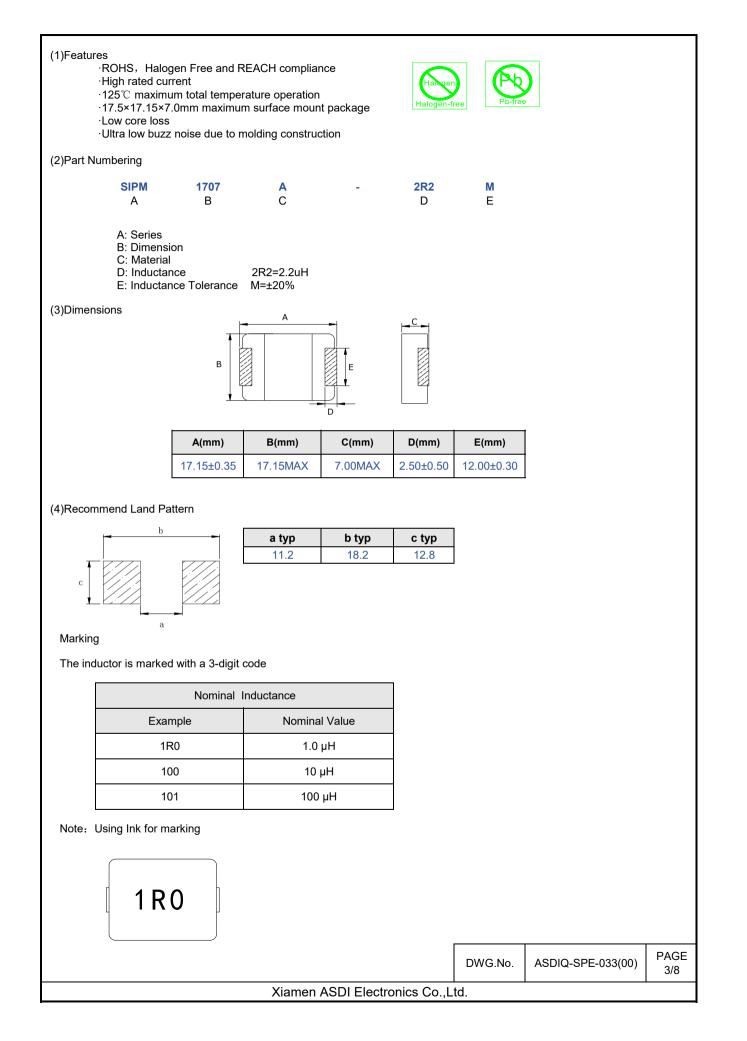
2.INDEX

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-033(00)	PAGE 2/8
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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.
SIPM1707A-2R2M	2.2	2.50	34.0	29.0
SIPM1707A-3R3M	3.3	3.95	30.0	24.0
SIPM1707A-4R7M	4.7	4.75	24.0	21.0
SIPM1707A-6R8M	6.8	7.50	22.0	17.0
SIPM1707A-8R2M	8.2	8.70	20.0	13.0
SIPM1707A-100M	10.0	9.90	19.0	12.0
SIPM1707A-150M	15.0	17.00	14.5	11.0
SIPM1707A-220M	22.0	23.00	11.5	8.5
SIPM1707A-330M	33.0	37.00	10.0	8.0
SIPM1707A-470M	47.0	47.00	7.5	6.0
SIPM1707A-680M	68.0	85.00	6.5	5.2
SIPM1707A-101M	100.0	130.0	5.0	3.7

Note:

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 %

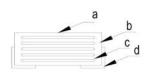
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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-033(00)	PAGE 4/8
Xiamen ASDI Electronics	Co.,Ltd.	-	

(6)Structure and Components

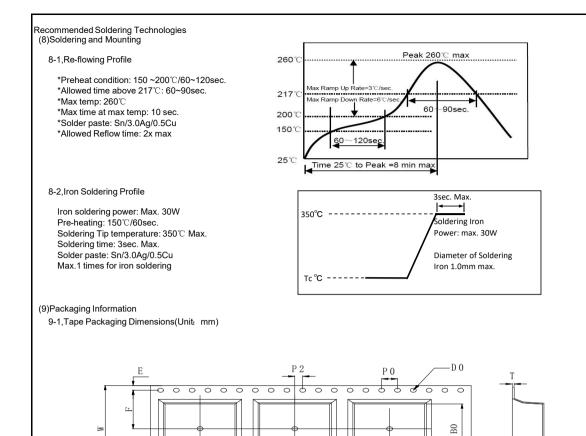
Symbol	Components	Material
а	Marking	Ink (black)
b	Core	Alloy Spongy Powder
с	Wire	Polyamideimide copper wire
d	Terminal	Copper plated with Sn

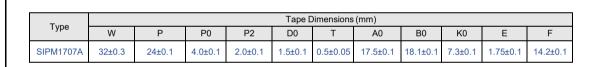


(7)Reliability Tests

	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%	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%	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 \pm 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°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°C 2. Time: 1000 hours 3. Measured at room temperature after placing for 24±2 hours					

	DWG.No.	ASDIQ-SPE-033(00)	PAGE 5/8
Xiamen ASDI Electronics Co.,Ltd.			





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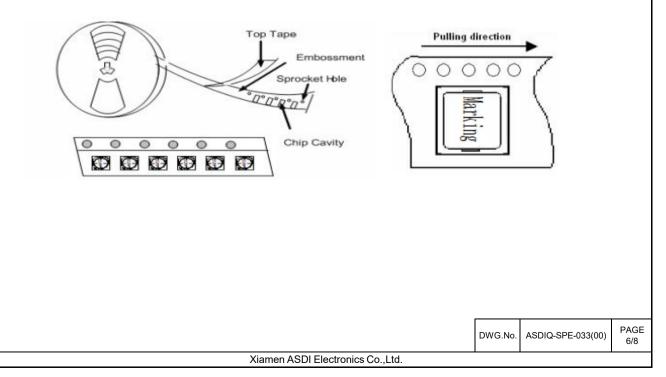
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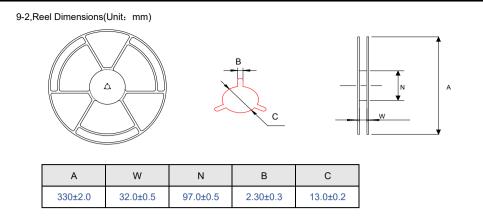
Taping Drawings (UNIT:mm)

0 0

0 0 0 0 0 0 0

p





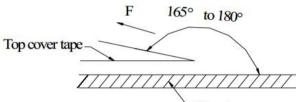
9-3, Packaging Quantity

Tures	Standard Quantity		
Туре	Reel	Inner box	Carton box
SIPM1707A	200 pcs / reel	2Reel / box (400 pcs)	3 Middle boxes, (1200 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



Base tape

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



Packing Type	A (mm)	B (mm)	C (mm)
Inner Box	335	70	340

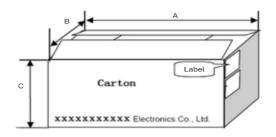
	DWG.No.	
Xiamen ASDI Electronics Co.,Ltd.		

PAGE

7/8

ASDIQ-SPE-033(00)

9-7,Carton



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

(10)Note

·Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. ASDI products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Temperature: 5 to 30deg.C, Humidity: 75% Max.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- ·Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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	DWG.No.	ASDIQ-SPE-033(00)	PAGE 8/8
Xiamen ASDI Electronics Co.,Ltd.	1	I	

单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI