| | <spfcif< th=""><th>CATION></th><th></th></spfcif<> | CATION> | |
|----------------|---|------------|---|
| | | | No. ASDIQ-SPE-033(00). May. 18, 2022 |
| То : | | | |
| | CUSTOMER'S PRO | DUCT NAME | |
| | ASDI PRODUCT NA | | |
| | CONSENT | | DNAL CONSENT |
| APPR | OVED | CHECk | KED |
| 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. 18, 2022 | New release | Xianglong Li | Liang Wang | Jiayin Cai |
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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 | • | | | | |
| (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 | | | | | |
| | | se of the products in any of the applications below or | | | |
| 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 the following applications, please contact our sales | | | | | |
| office. | | | | | |
| Transportation equipment (cars, electric trains, ships, etc.), Public information-processing | | | | | |
| equipment, Electric heating apparatus / burning equipment, Disaster prevention/crime | | | | | |
| prevention equipment | | | | | |
| When using this product in general-purpose applications, you are kindly requested to | | | | | |
| take into consideration securing protection circuit/equipment or providing backup circuits, | | | | | |
| etc., to ensure higher safety. | | | | | |
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| | | | | | |
| en ASDI Electronics Co.,Ltd. | DWG.No. | ISSUE | | | |
| | ASDIQ-SPE-033(00) | | | | |

| CUSTOMER | ASDI PART No. | CUSTOMER'S DWG NO. |
|----------|------------------|--------------------|
| | SIPM1265A-SERIES | |

1.Applications

Laptops and PCs,Switch and servers,Base stations, DC/DC converters,Battery powered devices.SSD modules.

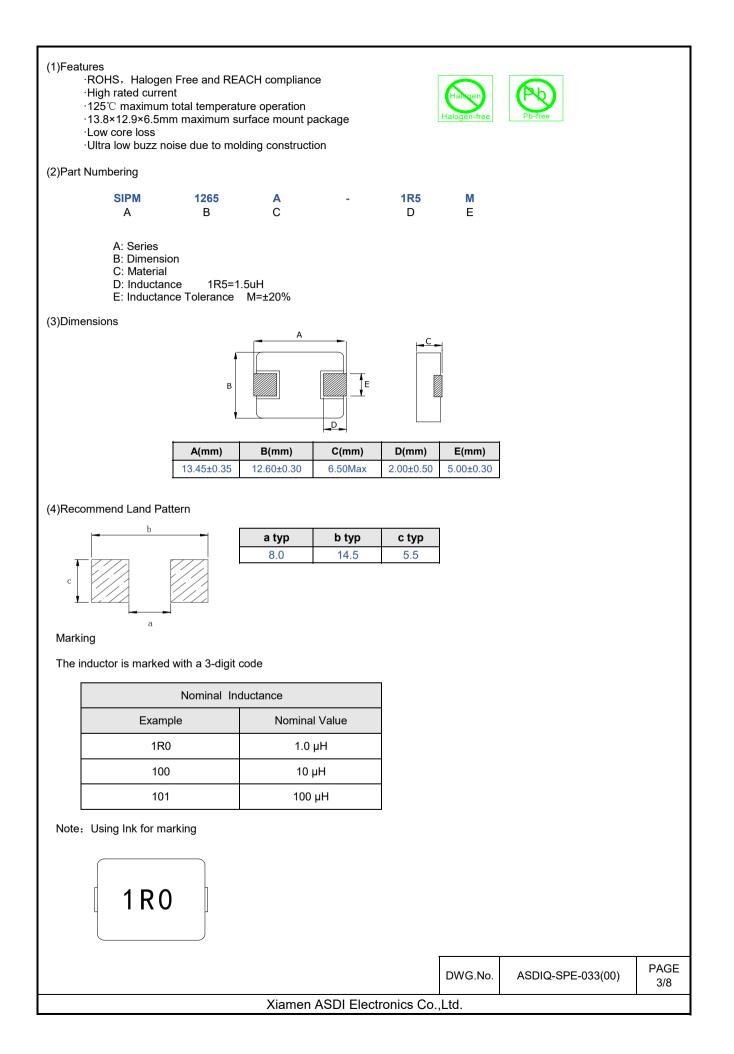
2.INDEX

| Attachment&Tables | Page |
|-------------------|--|
| Please see (1) | 3/8 |
| Please see (2) | 3/8 |
| Please see (3) | 3/8 |
| Please see (4) | 3/8 |
| Please see (5) | 4/8 |
| Please see (6) | 5/8 |
| Please see (7) | 5/8 |
| Please see (8) | 6/8 |
| Please see (9) | 6/8 |
| Please see (10) | 8/8 |
| | Please see (1)Please see (2)Please see (3)Please see (4)Please see (5)Please see (6)Please see (7)Please see (8)Please see (9) |

3.Manufacturing Location

China

| DWG.No. | ASDIQ-SPE-033(00) | PAGE 2/8 |
|-------------------------------|-------------------|-------------|
| nen 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) | l rms (A) | |
| | ±20% 100 KHz/1V | MAX. | TYP. | TYP. | |
| SIPM1265A-4R7M | 4.7 | 8.50 | 24.0 | 16.0 | |
| SIPM1265A-5R6M | 5.6 | 10.5 | 22.5 | 14.0 | |
| SIPM1265A-6R8M | 6.8 | 12.019.014.016.0 | 19.0 | 13.0 | |
| SIPM1265A-8R2M | 8.2 | | 16.0 | 12.0 | |
| SIPM1265A-100M | 1 10.0 | 16.5 | 15.0 | 11.0 | |
| SIPM1265A-150M | 15.0 | 26.0 | 11.0 | 9.5 | |
| SIPM1265A-220M | 22.0 | 36.0 | 9.00 | 8.0 | |
| SIPM1265A-330M | 33.0 | 65.0 | 8.00 | 6.5 | |
| SIPM1265A-470M | 47.0 | 70.0 | 6.80 | 5.5 | |
| SIPM1265A-680M | 68.0 | 120.0 | 5.20 | 4.8 | |
| SIPM1265A-820M | 82.0 | 135.0 | 4.50 | 4.0 | |
| SIPM1265A-101M | 100 | 170.0 | 4.00 | 3.5 | |

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 %

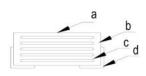
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.

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 |
|-------------------------|----------|-------------------|-------------|
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(6)Structure and Components

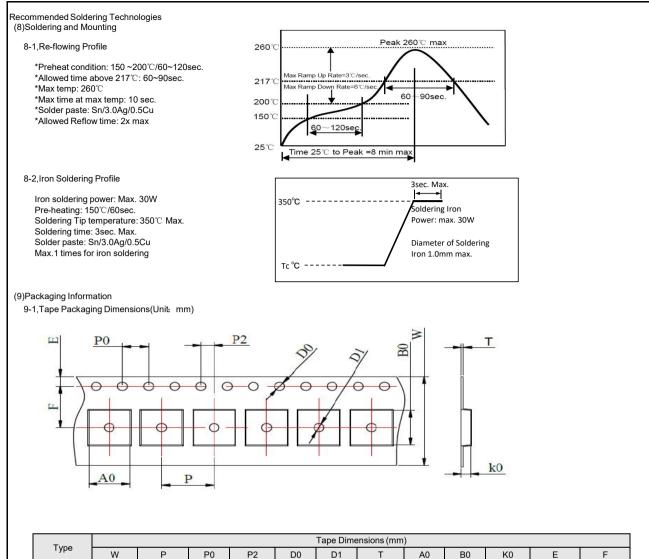
| Symbol | Components | Material |
|--------|------------|----------------------------|
| а | Marking | Ink (black) |
| b | Core | Alloy Spongy Powder |
| с | Wire | Polyamideimide copper wire |
| d | Terminal | Copper plated with Sn |



(7)Reliability Tests

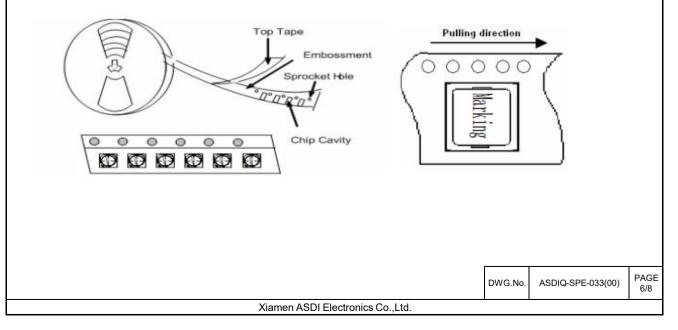
| | Mechanical Reliability | | | | | | | | | |
|-----|-----------------------------|---|--|--|--|--|--|--|--|--|
| No. | Test item | Performance | Test details | | | | | | | |
| 1 | Solderability | 1. No case deformation or change in apperarance 2. New solder coverage more than 95% | 1.Preheat: 155℃±5℃, 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. 3 times in each positive and negative direction of 3 mutual beroendicular 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℃,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 | | | | | | | |

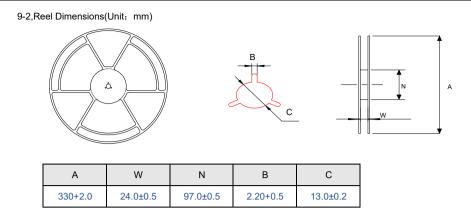
| | DWG.No. | ASDIQ-SPE-033(00) | PAGE 5/8 |
|----------------------------------|---------|-------------------|-------------|
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| Гуре | | W | Р | P0 | P2 | D0 | D1 | Т | A0 | B0 | K0 | Е | F |
|--------|-----|--------|--------|---------|---------|---------|---------|----------|----------|--------|---------|----------|----------|
| SIPM12 | 65A | 24±0.3 | 16±0.1 | 4.0±0.1 | 2.0±0.1 | 1.5±0.1 | 1.5±0.1 | 0.5±0.05 | 13.1±0.1 | 14±0.1 | 6.8±0.1 | 1.75±0.1 | 11.5±0.1 |

Taping Drawings (UNIT:mm)





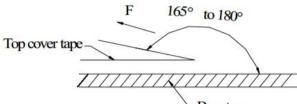
9-3, Packaging Quantity

| | Туре | Standard Quantity | | |
|--|-----------|-------------------|------------------------|-------------------------------|
| | | Reel | Inner box | Carton box |
| | SIPM1265A | 500 pcs / reel | 2Reel / box (1000 pcs) | 4 Middle boxes, (4000 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 |

DWG.No.

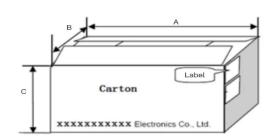
PAGE

7/8

ASDIQ-SPE-033(00)

| Xiamen ASDI Electronics Co.,Lt | d. |
|--------------------------------|----|
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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.
- Recommended products should be used within 12 months form the time of delivery.
 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.
- 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.

| | DWG.No. | ASDIQ-SPE-033(00) | PAGE 8/8 |
|----------------------------------|---------|-------------------|-------------|
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单击下面可查看定价,库存,交付和生命周期等信息

>>ASDI