SPECIFICATION FOR APPROVAL承认书

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- Description
- Magnetic Buzzer
- Vender's Part No.
- Customer's. Part No.
- Serial No.
- Version No.

- SMB-1310A12
 - **SAN-2088**
 - 1.1

| CUSTOMER'S APPROVED SIGNATURE | | | |
|-------------------------------|--|--|--|
| | | | |
| | | | |
| | | | |

SANCO ELECTRONICS CO., LTD.

Rm724, No.22 Lane38, Furong Road, Ningbo Hi-tech park, Ningbo China

TEL: +86-0574-83851068

FAX: +86-0574-83851096

E-Mail: sales@sancoelectronics.com

Http://www.sancoelectronics.com

| Approved By | Checked By | Made By |
|-------------|------------|-----------------------|
| | | James Li 2010-9-21 |

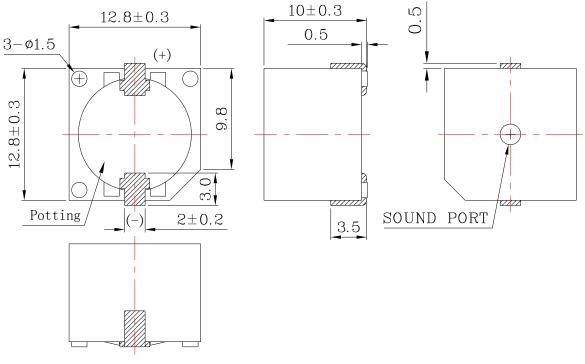
A. SCOPE

This specification applies magnetic buzzer, SMB-1310A05

B. SPECIFICATION

| No. | ltem | Unit | Specification | Condition |
|-----|--|------|----------------------|--------------------------|
| 1 | Oscillation Frequency | KHz | 2.4 ± 0.3 | |
| 2 | Operating Voltage | VDC | 9~15 | |
| 3 | Rated Voltage | VDC | 12 | |
| 4 | Current Consumption | mA | MAX. 30 | at Rated Voltage |
| 5 | Sound Pressure Level | dB | MIN. 85 | at 10cm at Rated Voltage |
| 6 | Tone/Pulse Rate | | Constant | |
| 7 | Operating Temperature | °C | -20 ~ +70 | |
| 8 | Storage Temperature | °C | -30 ~ +80 | |
| 9 | Dimension | mm | 12.8 x 12.8 x H10 | See appearance drawing |
| 10 | Weight (MAX) | gram | 2.5 | |
| 11 | Housing Material | | PPS(Gray) | |
| 12 | Leading Pin | | Tin Plated Brass(Sn) | See appearance drawing |
| 13 | Environmental Protection Regulation | | RoHS | |

C. APPEARANCE DRAWING



Tol : ± 0.3 Unit: mm

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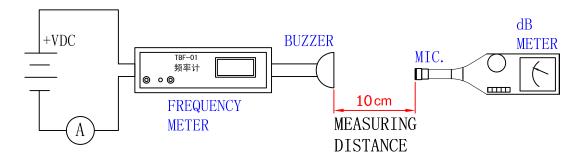
D.TESTING METHOD

Standard Measurement conditions

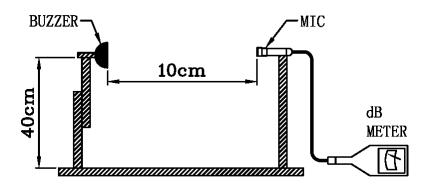
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

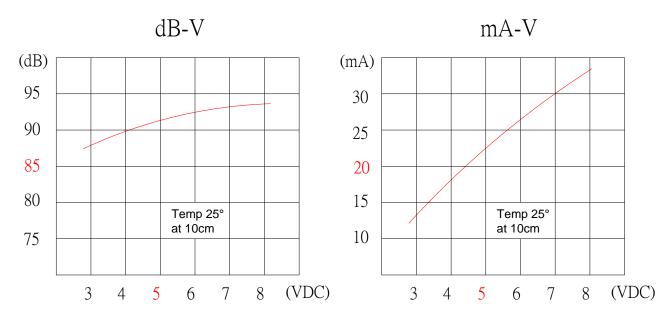
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



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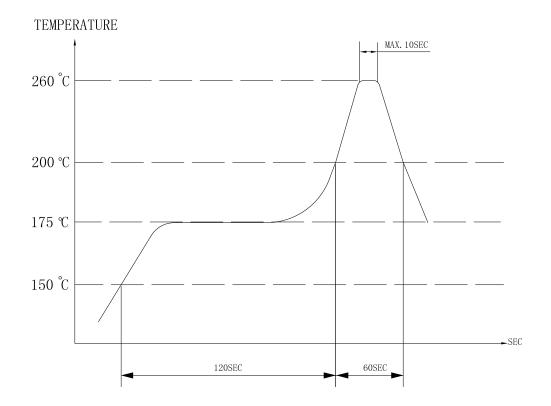
F. Soldering Condition

(1)Recommendable reflow soldering condition is as follows

(Reflow soldering is twice)

Note: It is requested that reflow soldering should be executed

after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2)Manual soldering

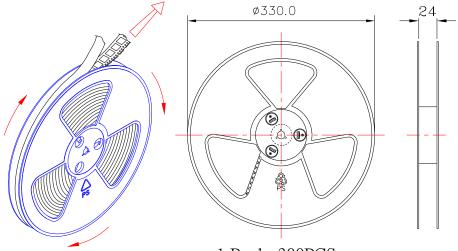
Manual soldering temperature 350 °C within 5 sec.

G. RELIABILITY TEST

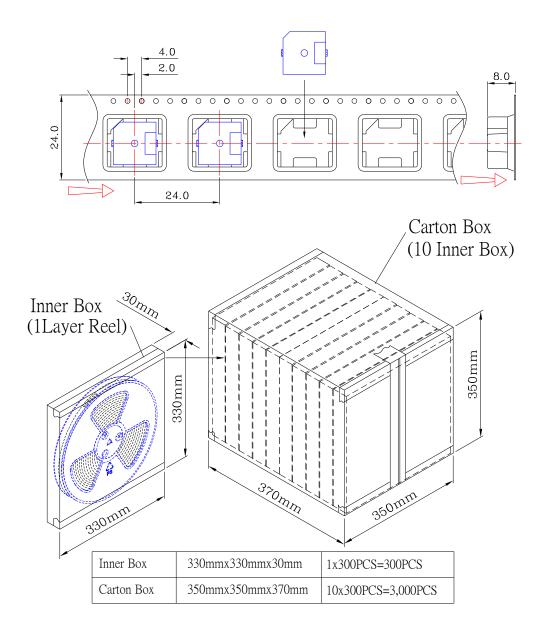
| NO. | ITEM | TEST CONDITION AND REQUIREMENT | | |
|-----|------------------------------------|--|--|--|
| 1 | High Temperature Test (Storage) | After being placed in a chamber with 802°C for 96 hours and then being placed in normal condition for 2 hours. | | |
| | | Allowable variation of SPL after test: 10dB. | | |
| | Low Temperature | After being Placed in a chamber with -302°C for 96 hours and then | | |
| 2 | Test (Storage) | being placed in normal condition for 2 hours. | | |
| | Test (Stolage) | Allowable variation of SPL after test: 10dB. | | |
| | | After being Placed in a chamber with 90-95% R.H. at 4022°C for 96 | | |
| 3 | Humidity Test | hours and then being placed in normal condition for 2 hours. | | |
| | | Allowable variation of SPL after test: 10dB. | | |
| | | The part shall be subjected to 5 cycles. One cycle shall be consist of : | | |
| | | . 7000 | | |
| 4 | | +70°C | | |
| | | | | |
| | | +25°C +25°C | | |
| | Temperature Cycle | | | |
| - | Test | -20°C | | |
| | | | | |
| | | | | |
| | | 0.5hr 0.5 0.25 0.5 0.5 0.5 0.25 | | |
| | | 3hours | | |
| | | Allowable variation of SPL after test: 10dB. | | |
| | | Drop on a hard wood board of 4cm thick, any directions ,6 times, | | |
| 5 | Drop Test | at the height of 75cm. | | |
| 1 0 | | Allowable variation of SPL after test: 10dB. | | |
| | | After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz | | |
| 6 | Vibration Test | band of vibration frequency to each of 3 perpendicular directions for | | |
| 6 | | 2 hours. | | |
| | | Allowable variation of SPL after test: 10dB. | | |
| | | Lead terminals are immersed in rosin for 5 seconds and then | | |
| 7 | Solderability Test | immersed in solder bath of $+300$ 5°C for 3 1 seconds. | | |
| / | | 90% min. lead terminals shall be wet with solder | | |
| | | (Except the edge of terminals). | | |
| | Terminal Strength | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for | | |
| 8 | Pulling Test | 10 seconds. | | |
| | | No visible damage and cutting off. | | |

| Standard Test Condition | : | a) Temperature : +5 ~ +35℃ | b) Humidity : 45-85% | c) Pressure : 860-1060mbar |
|-------------------------|---|----------------------------|----------------------|----------------------------|
| 一般测试条件 | | a) 温度 : +5 ~ +35℃ | b) 湿度 : 45-85% | c) 气压 : 860-1060mbar |
| Judgment Test Condition | : | a) Temperature : +25 ± 2℃ | b) Humidity : 60-70% | c) Pressure : 860-1060mbar |
| 争议时测试条件 | | a) 温度 : +25 ± 2℃ | b) 湿度 : 60-70% | c) |

H. PACKING STANDARD



1 Reel : 300PCS



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