

SPECIFICATION FOR APPROVAL

承 认 书

Description : **Magnetic Buzzer**

Vender's Part No. : **ALP-1205ST**

Customer's. Part No. :

Serial No. :

Version No. : **1.1**

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

| Approved By | Checked By | Made By |
|-------------|------------|---------------------------------|
| | | Zhu 2011-12-13 |

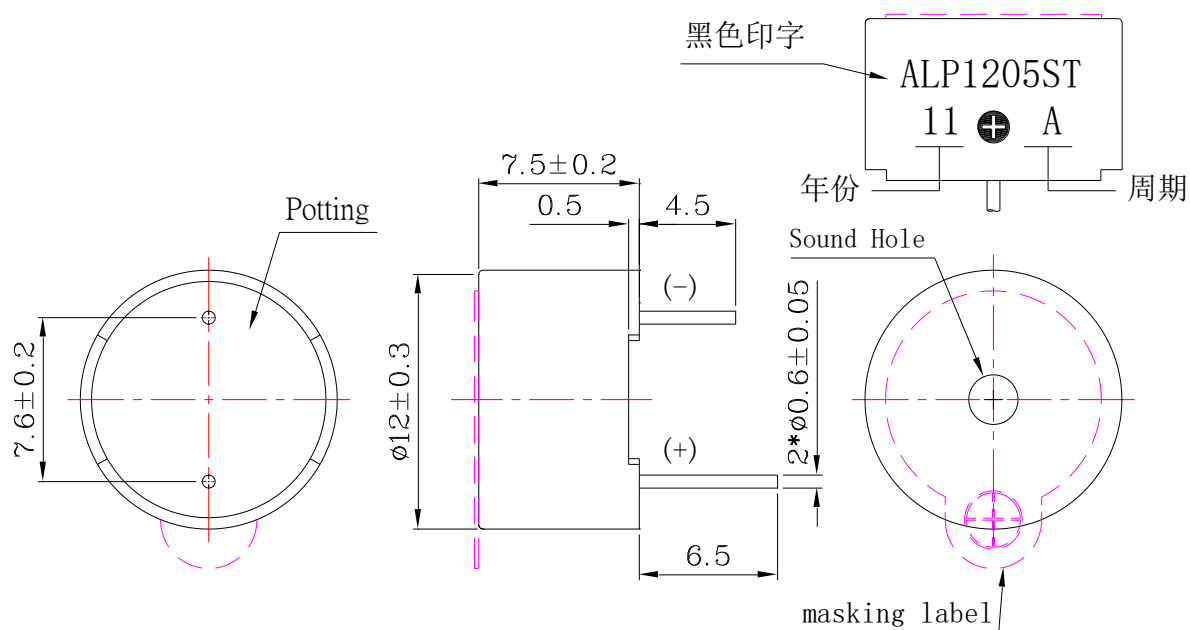
A. SCOPE

This specification applies magnetic buzzer, **ALP-1205ST**

B. SPECIFICATION

| No. | Item | Unit | Specification | Condition |
|-----|-------------------------------------|------|----------------------|--------------------------|
| 1 | Oscillation Frequency | KHz | 2.3 ± 0.2 | |
| 2 | Operating Voltage | Vdc | 3~7 | |
| 3 | Rated Voltage | Vdc | 5 | |
| 4 | Current Consumption | mA | MAX. 30 | at Rated Voltage |
| 5 | Sound Pressure Level | dB | MIN. 88 | at 10cm at Rated Voltage |
| 6 | Tone/Pulse Rate | | Constant | |
| 7 | Operating Temperature | ℃ | -20 ~ +70 | |
| 8 | Storage Temperature | ℃ | -30 ~ +80 | |
| 9 | Dimension | mm | Φ12.0 x H7.5 | See appearance drawing |
| 10 | Weight (MAX) | gram | 2.0 | |
| 11 | Housing Material | | PPO(Gray) | |
| 12 | Leading Pin | | Tin Plated Brass(Sn) | See appearance drawing |
| 13 | Environmental Protection Regulation | | RoHS | |

C. APPEARANCE DRAWING



Tol : ± 0.5

Unit: mm

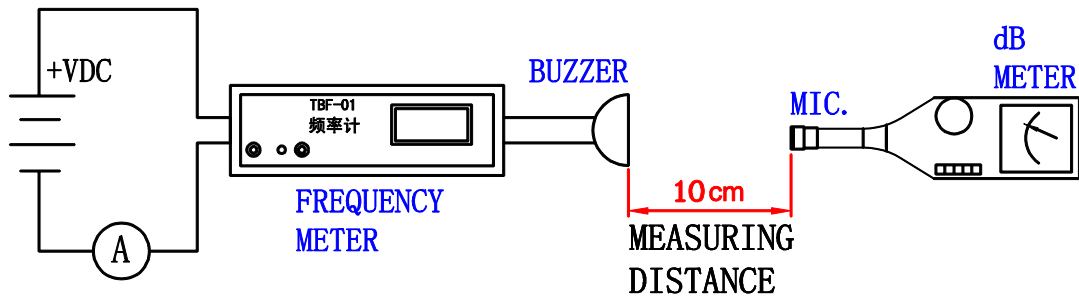
D. TESTING METHOD

Standard Measurement conditions

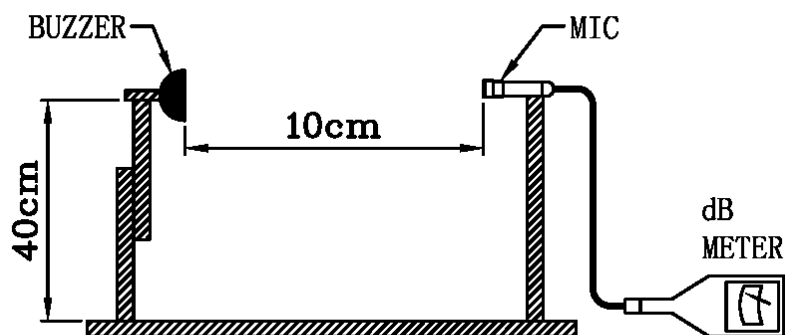
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-65%

Acoustic Characteristics:

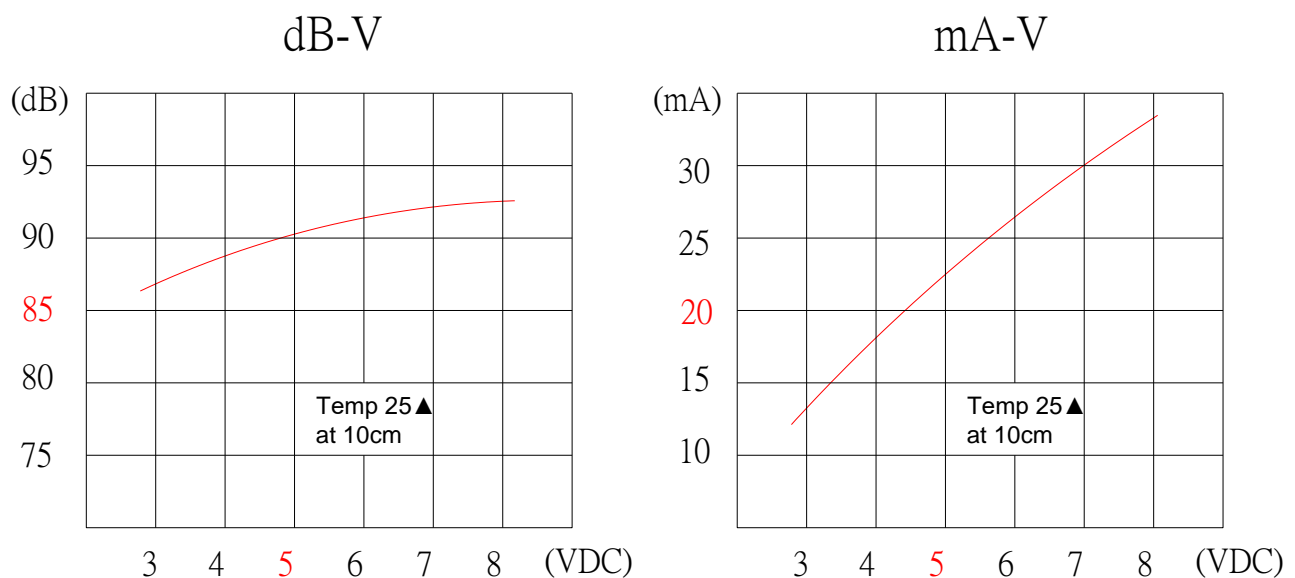
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



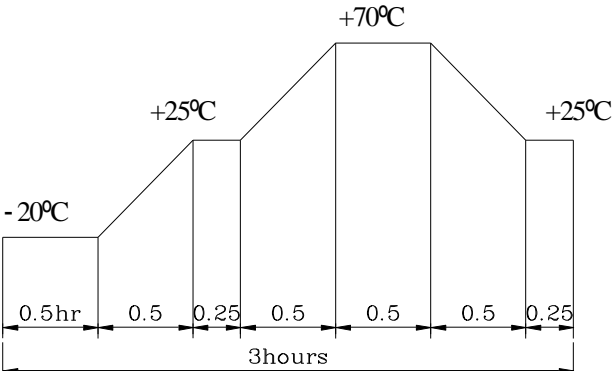
In the measuring test, buzzer is placed as follows:



E. VOLTAGE / CURRENT / SOUND PRESSURE CHARACTERISTICS



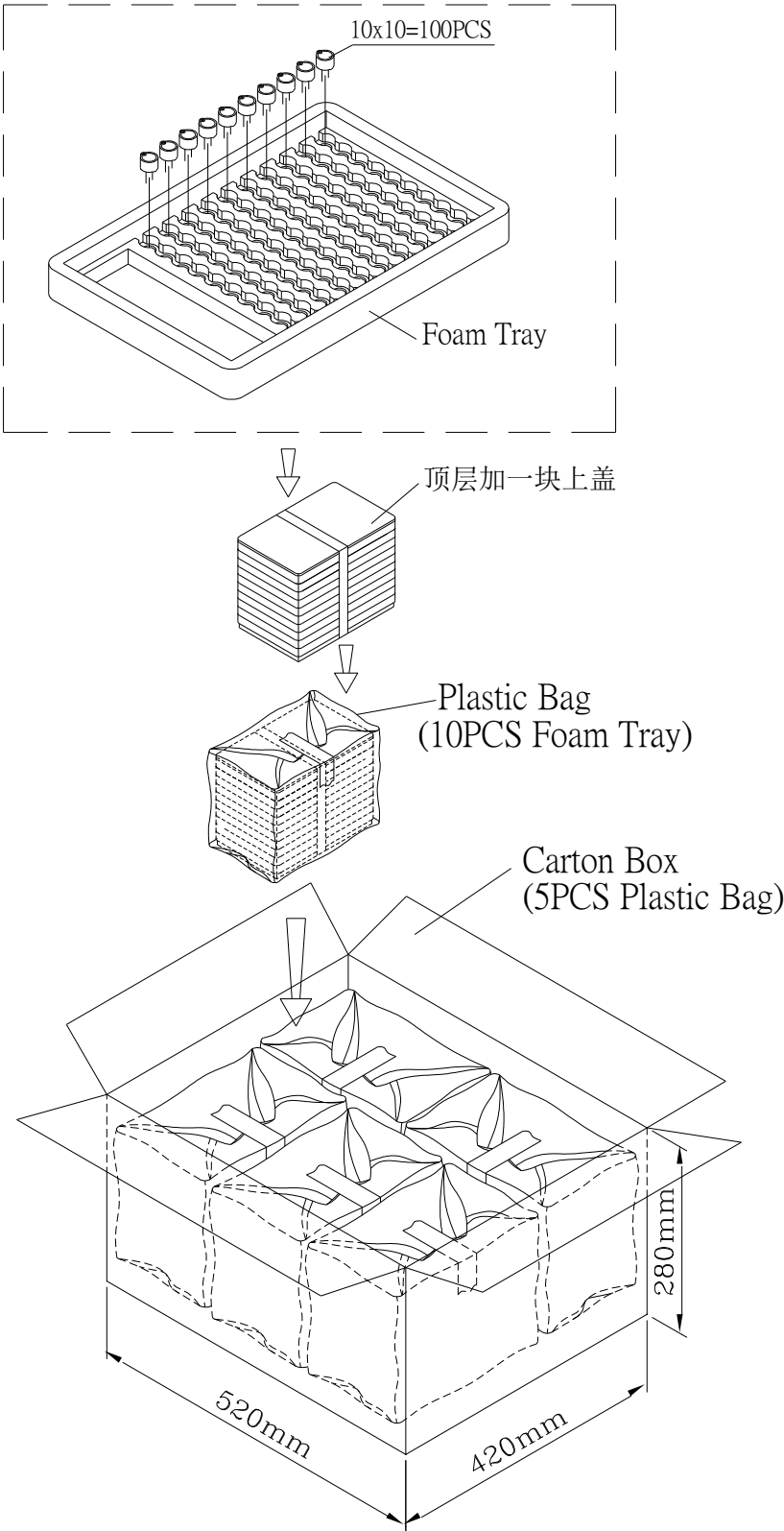
F. RELIABILITY TEST

| NO. | ITEM | TEST CONDITION AND REQUIREMENT |
|-----|---------------------------------|--|
| 1 | High Temperature Test (Storage) | After being placed in a chamber with $80 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$. |
| 2 | Low Temperature Test (Storage) | After being Placed in a chamber with $-30 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$. |
| 3 | Humidity Test | After being Placed in a chamber with 90-95% R.H. at $40 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$. |
| 4 | Temperature Cycle Test | <p>The part shall be subjected to 5 cycles. One cycle shall be consist of :</p>  <p>Allowable variation of SPL after test: $\pm 10\text{dB}$.</p> |
| 5 | Drop Test | Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: $\pm 10\text{dB}$. |
| 6 | Vibration Test | After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: $\pm 10\text{dB}$. |
| 7 | Solderability Test | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+300 \pm 5^{\circ}\text{C}$ for 3 ± 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals). |
| 8 | Terminal Strength Pulling Test | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off. |

TEST CONDITION.

| | | | | |
|-------------------------|---|--|----------------------|----------------------------|
| Standard Test Condition | : | a) Temperature : $+5 \sim +35^{\circ}\text{C}$ | b) Humidity : 45-85% | c) Pressure : 860-1060mbar |
| 一般测试条件 | : | a) 温度 : $+5 \sim +35^{\circ}\text{C}$ | b) 湿度 : 45-85% | c) 气压 : 860-1060mbar |
| Judgment Test Condition | : | a) Temperature : $+25 \pm 2^{\circ}\text{C}$ | b) Humidity : 60-70% | c) Pressure : 860-1060mbar |
| 争议时测试条件 | : | a) 温度 : $+25 \pm 2^{\circ}\text{C}$ | b) 湿度 : 60-70% | c) 气压 : 860-1060mbar |

G. PACKING STANDARD



| | | |
|-------------|-------------------|--------------------|
| Foam Tray | 240mmx160mmx30mm | 1x100PCS=100PCS |
| Plastic Bag | | 10x100PCS=1000PCS |
| Carton Box | 520mmx420mmx280mm | 5x1000PCS=5,000PCS |