



**MODEL:** GT-11PS  
**PRODUCT:** Electromagnetic Buzzer  
**EDITION:** A/2017

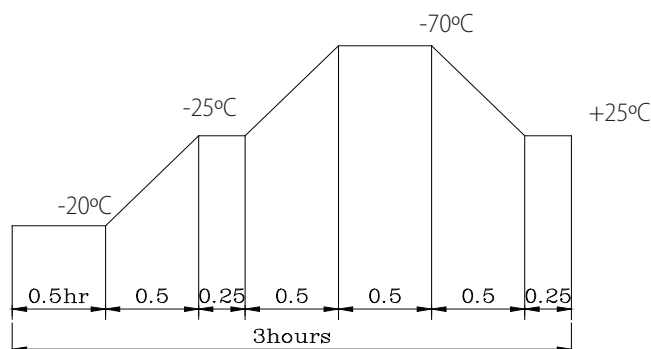
**THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER**

**SPECIFICATION**

| item                                | unit | specification        | condition                  |
|-------------------------------------|------|----------------------|----------------------------|
| oscillation frequency               | Hz   | 2048                 | Vo-p=1/2 duty, square wave |
| operating voltage                   | Vo-p | 1.0 ~ 3.0            |                            |
| rated voltage                       | Vo-p | 1.5                  |                            |
| current consumption                 | mA   | 30                   | At rated voltage           |
| sound pressure level                | dB   | 75                   | At 10cm at rated voltage   |
| coil resistance                     | Ω    | 16 ± 4               |                            |
| operating temperature               | °C   | -20 ~ +60            |                            |
| storage temperature                 | °C   | -20 ~ +70            |                            |
| dimension                           | mm   | φ12.0 × H5.4         | See attached drawing       |
| weight (max)                        | gram | 2.0                  |                            |
| housing material                    |      | PPO                  |                            |
| leading pin                         |      | Tin plated brass(Sn) | See attached drawing       |
| environmental protection regulation |      | RoHS                 |                            |

**RELIABILITY TEST**

| item                            | test condition and requirement  |
|---------------------------------|---|
| high temperature test (storage) | After being placed in a chamber with 80±2°C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: ±10dB.                  |
| low temperature test (storage)  | After being placed in a chamber with -30±2°C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: ±10dB.                 |
| humidity test                   | After being placed in a chamber with 90 ~ 95% R.H. at 40±2°C for 96 hours and then being placed in normal condition for 2 hours.<br>Allowable variation of SPL after test: ±10dB. |
| temperature cycle test          | The part will be subjected to 5 cycles. One cycle shall be consist of:  |



Allowable variation of SPL after test: 10dB.



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**RELIABILITY TEST (CONTINUED)**

| item                           | test condition and requirement   |
|--------------------------------|--|
| drop test                      | Drop on a hard wood board of 4cm thick, any directions , 6 times, at the height of 75 cm .<br>Allowable variation of SPL after test: $\pm 10$ dB   |
| 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 .<br>Allowable variation of SPL after test: $\pm 10$ dB.                  |
| 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 $3 \pm 1$ seconds .<br>90% min. lead terminals will be wet with solder (Except the edge of terminals). |
| terminal strength pulling test | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds.<br>No visible damage and cutting off.  |

**TEST CONDITION**

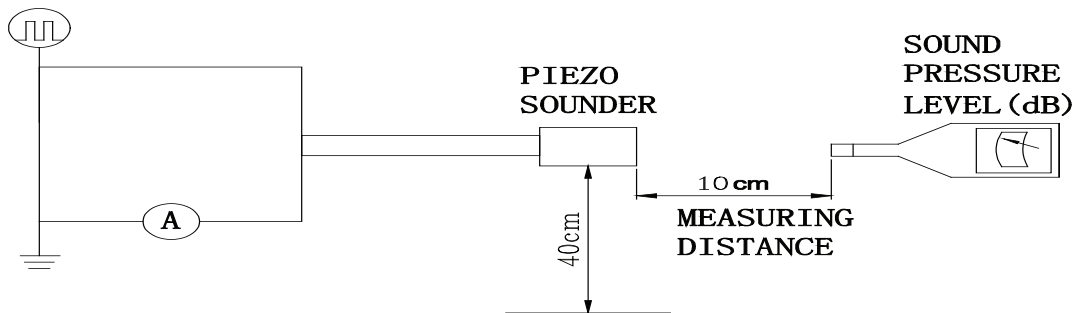
Standard Test Condition: a) Temperature :  $+5 \sim +35^\circ\text{C}$     b) Humidity : 45 ~ 85%    c) Pressure : 860 ~ 1060mbar

**TESTING METHOD**

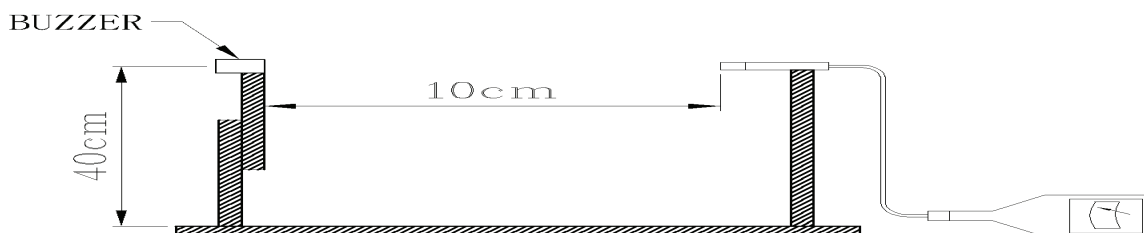
Standard Measurement conditions : Temperature:  $25 \pm 2^\circ\text{C}$     Humidity: 45 ~ 65%

**ACOUSTIC CHARACTERISTICS:**

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



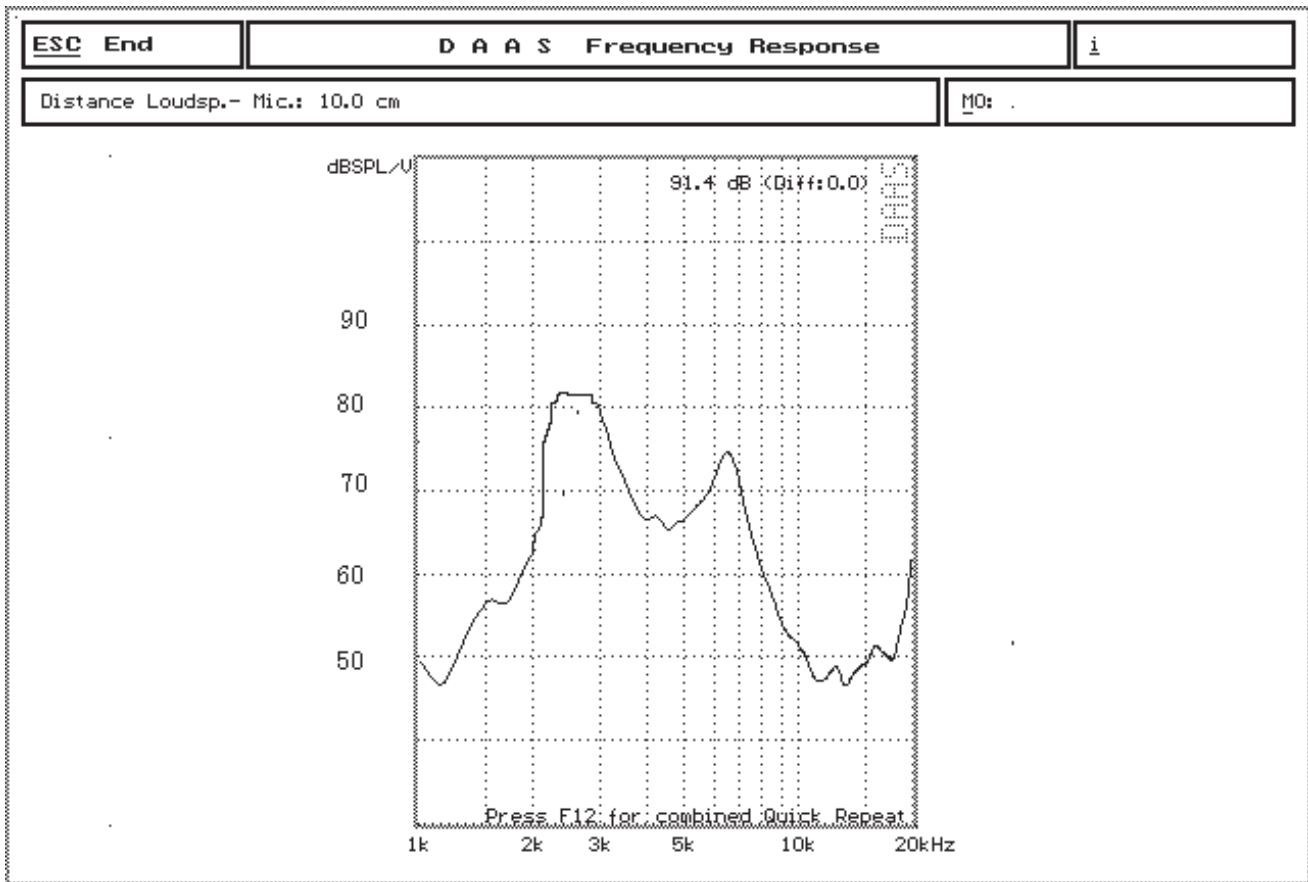
In the measuring test, buzzer is placed as follows:





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### TYPICAL FREQUENCY RESPONSE CURVE

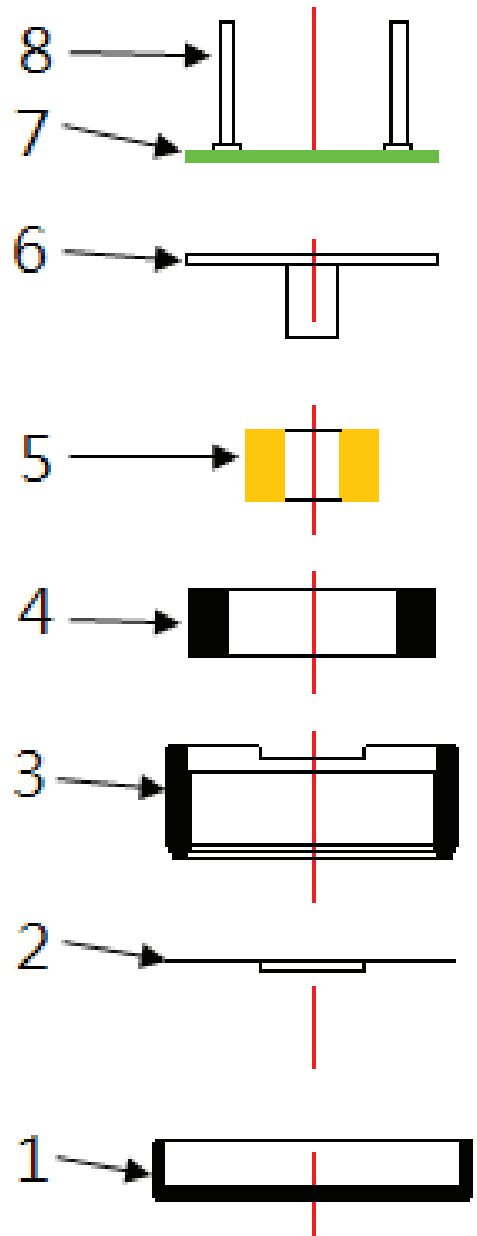
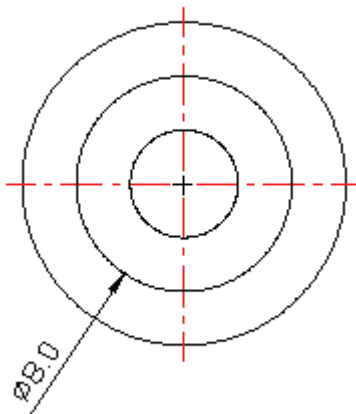
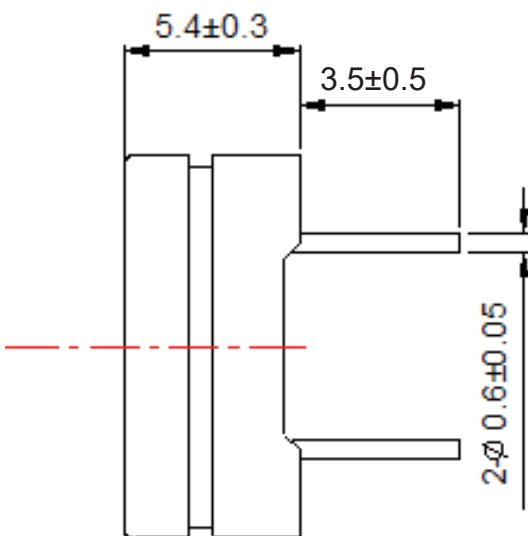
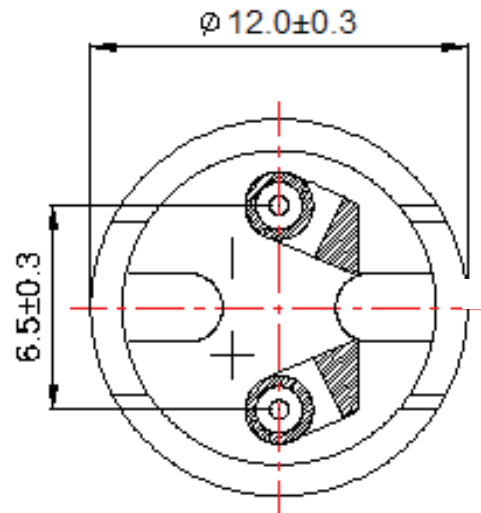




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**DIMENSIONS**

Tolerance: ±0.5 (unit: mm)

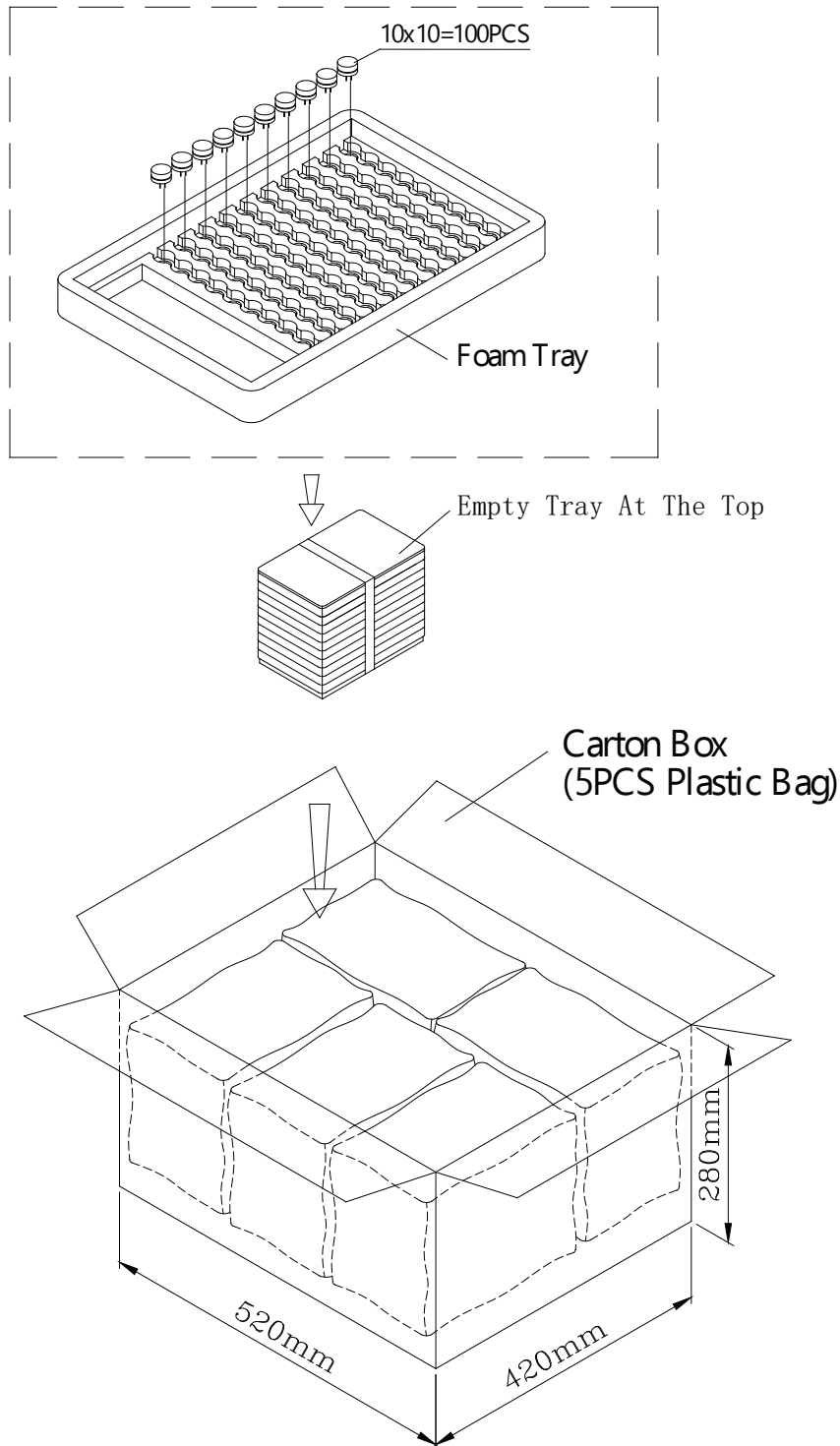


| no | components | material                         | quantity |
|----|------------|----------------------------------|----------|
| 1  | Cover      | PPO                              | 1        |
| 2  | Diaphragm  | Iron                             | 1        |
| 3  | Base       | PPO                              | 1        |
| 4  | Magnet     | NdFeB                            | 1        |
| 5  | Coil       | Copper                           | 1        |
| 6  | Core       | Iron                             | 1        |
| 7  | PCB        | Epoxy glass fiber cloth + copper | 1        |
| 8  | PIN        | Copper                           | 2        |



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**PACKING**



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