



MODEL: GT-0915RP3
PRODUCT: Electromagnetic Buzzer
EDITION: A/2017

THIS SPECIFICATION APPLIES TO THE ELECTROMAGNETIC BUZZER

SPECIFICATION

Test condition: TEMP=+25±2 °C Related humidity=65±5% Air pressure:860-1060mbar

| item | unit | specification | condition |
|-------------------------------------|------|-----------------------|---|
| rated voltage | Vo-p | 1.5 | |
| operating volt | Vo-p | 4.0 ~ 6.0 | |
| mean current | mA | Max.80 | At rated voltage 3200Hz, square wave, 1/2 duty |
| coil resistance | Ω | 30 | |
| sound output | dBA | 85 | At 10cm(A-weight free air), at rated voltage 3200Hz, square wave, 1/2duty |
| rated frequency | Hz | 3200 | |
| operating temp | °C | -20 ~ +60 | |
| storage temp | °C | -30 ~ +70 | |
| dimension | mm | φ9.0×H4.3 | See attached drawing |
| weight | gram | 0.6 | |
| material | | PPO (Black) | |
| terminal | | Pin type (Plating Au) | See attached drawing |
| environmental protection regulation | | RoHS | |

ENVIRONMENT TEST

| item | test condition | evaluation standard |
|-----------------|--|--|
| high temp. test | After being placed in a chamber at +70°C for 96 hours. | After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C. The SPL shall be in ±80dBA compared with initial one. |
| low temp. test | After being placed in a chamber at -30°C for 96 hours. | |
| thermal shock | The part will be subjected to 10 cycles. One cycle shall consist of: <div style="text-align: center;"> </div> | |

| | |
|----------------------|--|
| temp./humidity cycle | The part will be subjected to 10 cycles. One cycle shall be 24 hours and consist of: <div style="text-align: center;"> </div> |
|----------------------|--|



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RELIABILITY TEST

| item | test conditions | evaluation standard |
|---------------------|---|--|
| operating life test | ORDINARY TEMPERATURE Ordinary temperature The part will be subjected to 1000 hours of continuous operation at +25 ±10°C | After the test the part will meet specifications without any degradation in appearance and performance except SPL, after 4 hours at +25°C. The SPL would be in ±80dBA compared with initial one. |
| | HIGH TEMPERATURE The part will be subjected to 500 hours of continuous operation at +60°C with 1.5V, 3200Hz applied | |
| | LOW TEMPERATURE The part will be subjected to 500 hours of continuous operation at -20°C with 1.5V, 3200Hz applied. | |

TEST CONDITION

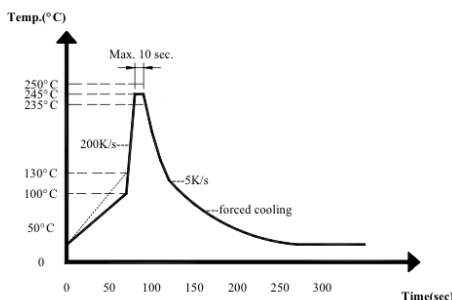
Standard Test Condition : a)Temperature: +5~+35°C b)Humidity:45~85% c)Pressure: 860~1060mbar

MECHANICAL CHARACTERISTICS

| item | test conditions | evaluation standard |
|------------------------------|---|---|
| solderability | Lead terminal are immersed in rosin for 5 seconds and then immersed in solder bath of +250±5°C for 3±0.5 seconds. | 90% min. lead terminals will be wet with solder |
| soldering heat resistance | Lead terminals are immersed in soldering bath of +250±5°C for 2±0.5 seconds. | No interference in operation. |
| terminal mechanical strength | Apply the terminal with 1KG strength for 10±1 seconds. | No damage and cutting off. |
| vibration | The part will be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude will be 1.52mm(9.3G). The vibration test will consist of 2 hours per axis in each three axes(X,Y,Z). Total 6 hours. | After the test the part will meet specifications without any damage in appearance and performance except SPL. The SPL would be 80dBA or more. |
| drop test | The part only will be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes(X,Y,Z). Total of 9 times. | |

RECOMMENDED WAVE SOLDERING TEMPERATURE CURVE

* Wave Soldering profile of lead-free

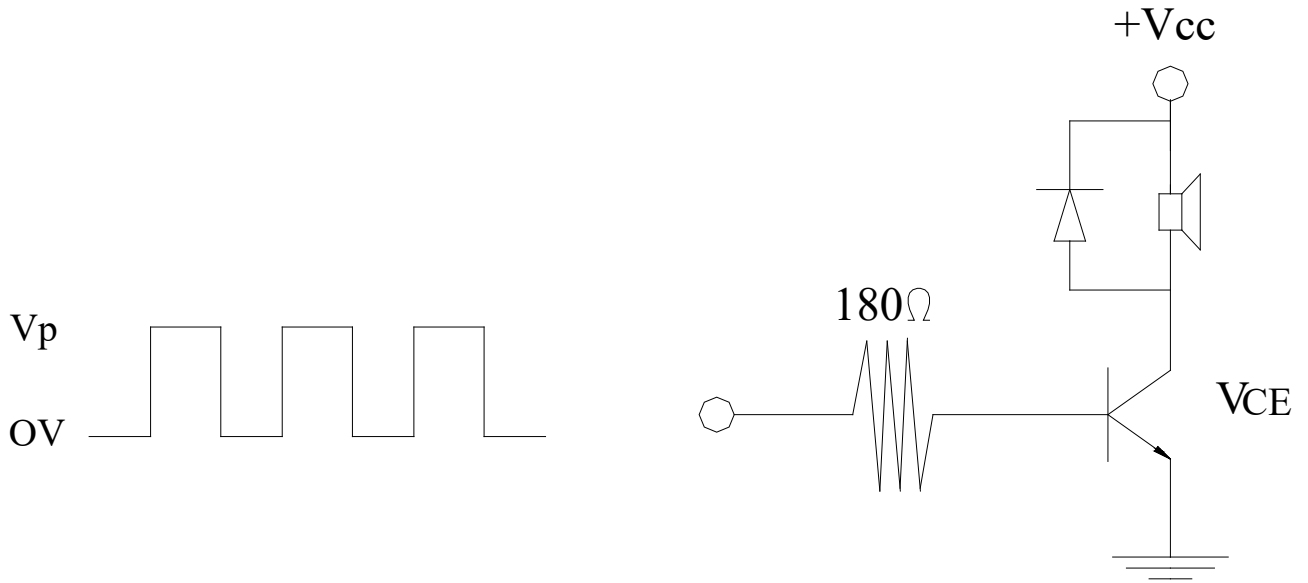


Recommendable wave soldering condition is as follows:
 Note 1: It is requested that wave soldering should be executed after heat of product goes down to normal temperature.
 Note 2: Peak wave temperature of 235°C ~ 250°C maximum of 10 seconds.

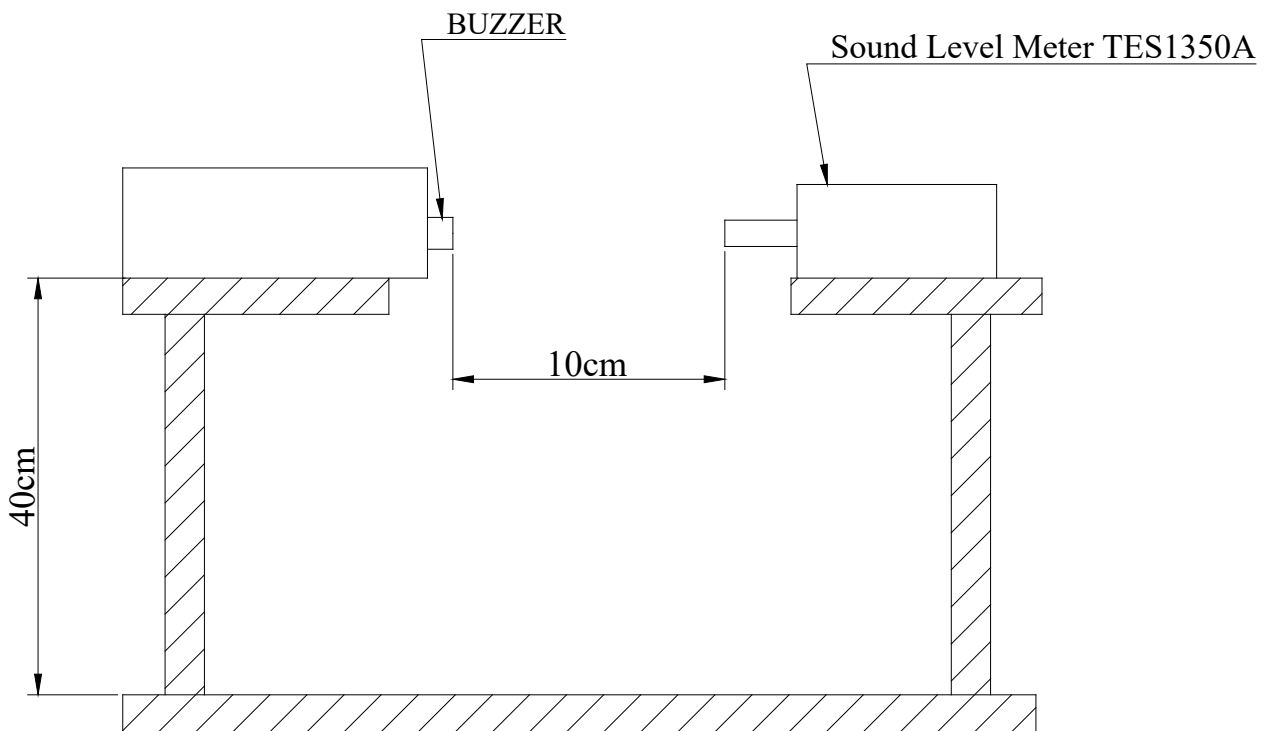


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MEASUREMENT TEST CIRCUIT



INSPECTION FIXTURE

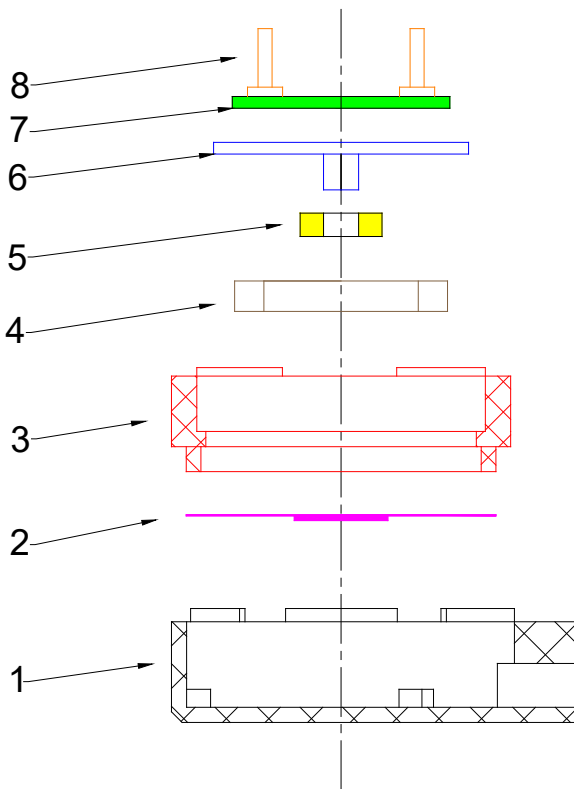
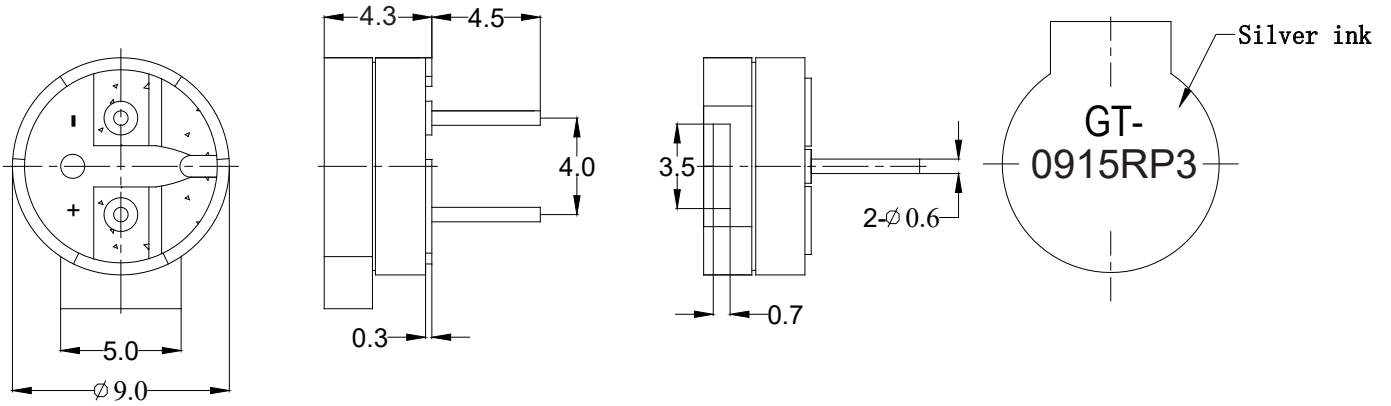




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DIMENSIONS

Tolerance: ±0.5 (unit: mm)

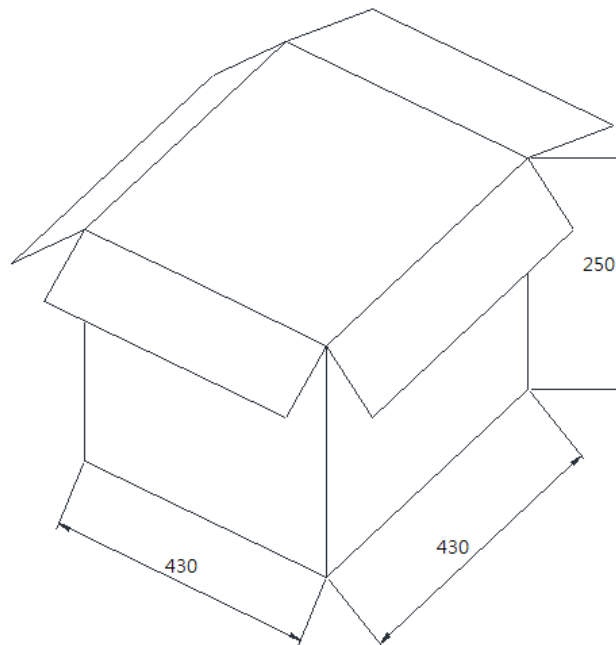
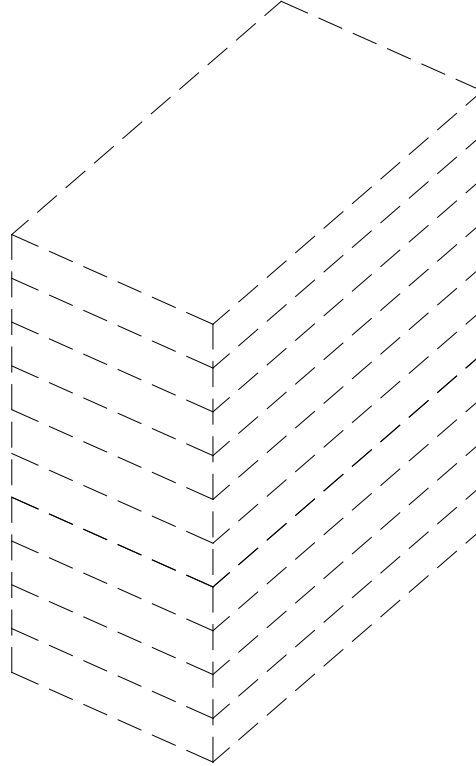


| no | item | material | quantity |
|----|-------------|----------------------------------|----------|
| 1 | CASE | PPO | 1 |
| 2 | Diaphragm | Ferrum | 1 |
| 3 | CASE | PPO | 1 |
| 4 | Magnet ring | NdFeB | 1 |
| 5 | Coil | Copper | 1 |
| 6 | Core | Ferrum | 1 |
| 7 | PCB | Epoxy glass fiber cloth + copper | 1 |
| 8 | PIN | Copper | 2 |



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PACKING



| packing box | LxWxH (mm) | pieces |
|---------------|-------------|--------|
| Tray | 190x190x25 | 100 |
| Inner cartons | 210x210x220 | 1600 |
| Outer cartons | 430x430x250 | 6000 |