

MESSRS.

SPECIFICATION FOR APPROVAL 承 认 书

| Product | MAGNETIC BUZZER |
|-------------------|-------------------|
| Part No. | HS-1203A-W (RoHS) |
| Customer | |
| Customer Part No. | |

| Approved By | Checked By | Made By | |
|-------------|-------------|-------------|--|
| 王台平 | 曹丽萍 | Lily | |
| SEP-23-2020 | SEP-23-2020 | SEP-23-2020 | |

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1. Specifications

HS-1203A-W(RoHS)

| | Items | Units | Specifications | Conditions |
|----|------------------------------|---------------|----------------------|---|
| 01 | Rated Voltage | Vo-p | 3 | Vo-p OV |
| 02 | Operating Voltage | Vo-p | 2 ~ 4 | |
| 03 | Comsumption Current | mA (Max) | Mean 70 | Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard |
| 03 | | | Peak 210 | state. |
| 04 | Direct Current Resistance | Ohm | 16 ± 2.4 | |
| 05 | Sound Output | dBA (min) | 88 | Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2duty subject to standard state. |
| 06 | Rated Frequency | Hz | 2700 | |
| 07 | Operating Temp. | ${\mathbb C}$ | −20 [~] +70 | |
| 08 | Storage Temp. | $^{\circ}$ | −30 [~] +80 | |
| 09 | Weight | Gram | 2 | |

2. Measuring Method

2-1. Test Condition

Standard

Temperature : $15 \sim 35^{\circ}$ C

Relative humidity: 25% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

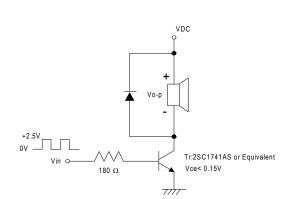
Judgement

Temperature : $20\pm3\,^{\circ}\mathrm{C}$

Relative humidity: 60% ~ 70%,

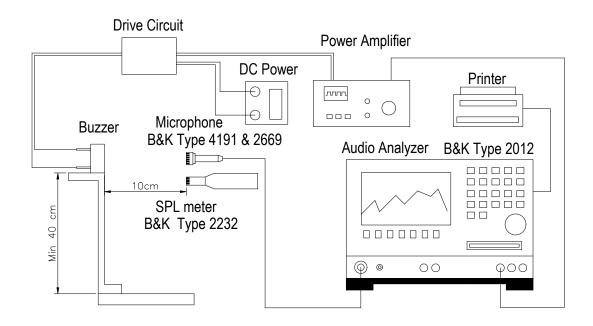
Atmospheric pressure: 860mbar to 1060mbar

2-2. Standard Drive Circuit:



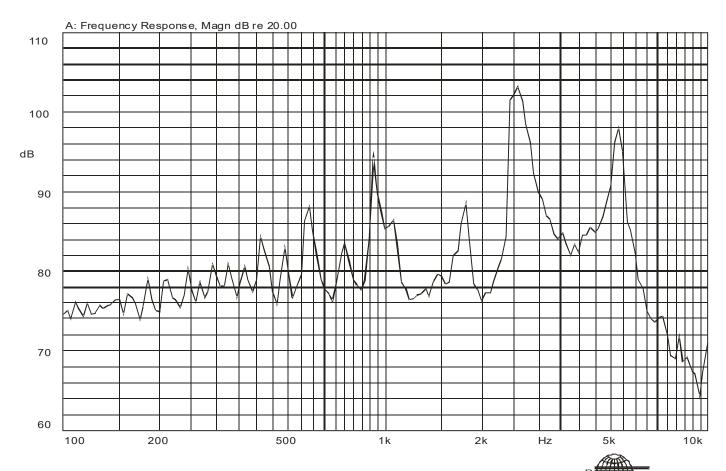


2-3. Standard Test Fixture



2-4. Frequency Response Curve

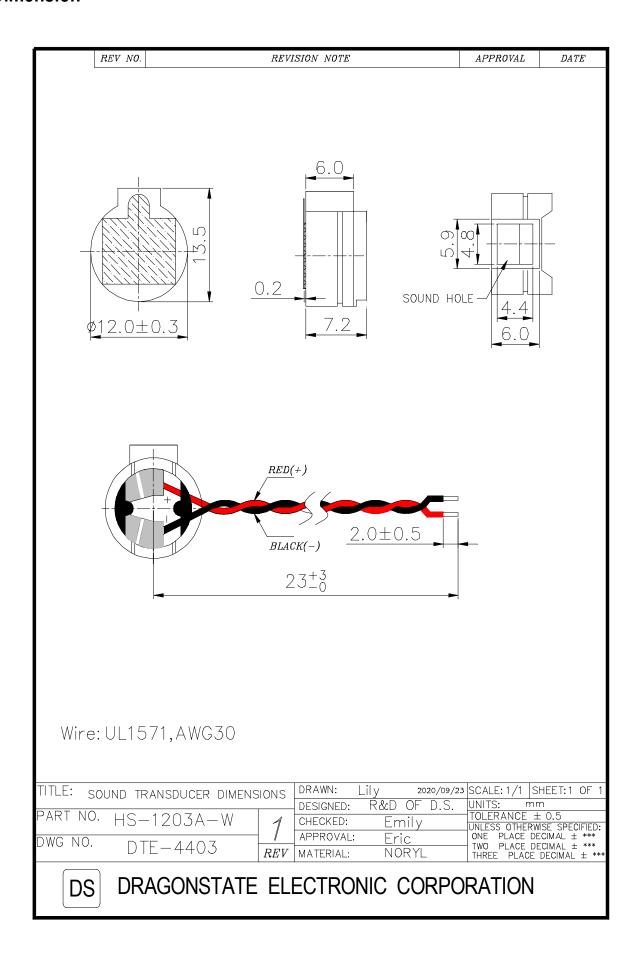
X:2.7384kHz Y:91.66dB ZA:Live Curve SSR T. RMS



Mode: SSR



3.Dimension





4. Reliability Test

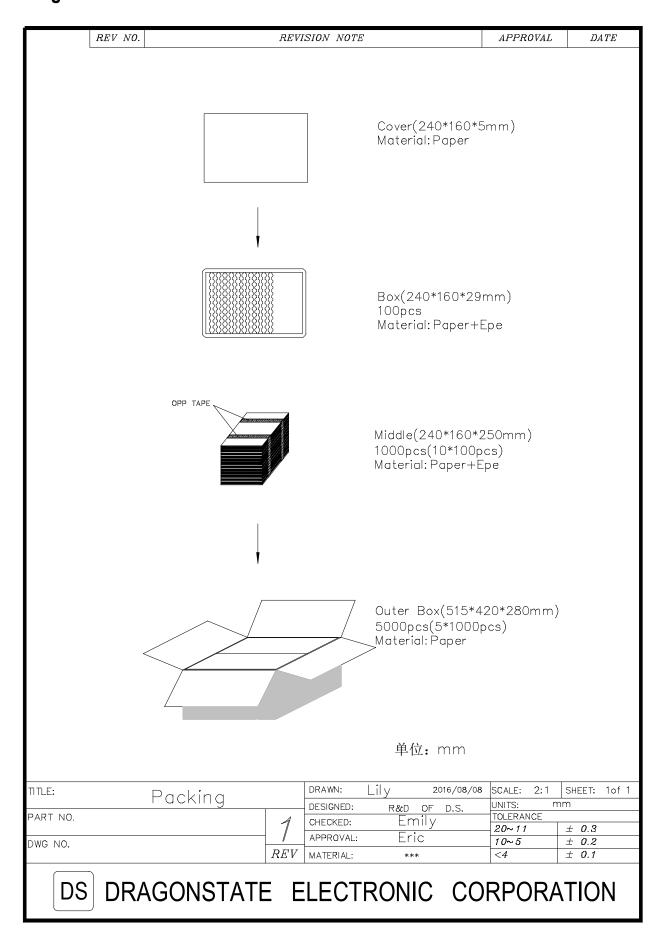
| | ltem | Test conditions | Evaluation standard | |
|----|------------------------|---|--|--|
| 01 | High temp.Storage life | temp.Storage life The part shall be capable of withstanding a storage Temperature of 95℃ for 96 hours. | | |
| 02 | Low temp.Storage life | The part shall be capable of withstanding a storage Temperature of -50 °C for 96 hours. | | |
| 03 | Temp. cycle | The part shall be subjected 10 cycles. One cycle shall consist of; -40°C 85°C 30min 30min 60min | After the test the part shall meet specifications without Any degradation in appearance and | |
| 04 | Temp./Humidity cycle | The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of; 90 ~ 95 % RH 65°C 90.5hr 6hrs 0.5hr 5hrs | performance except S.P.L S.P.L shall be 87dB or more. | |
| 05 | Operating life | Rated Voltage,Frequency applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room tremperature (25 ±10 °C) 1. High temperature The part shall be subjected to 500 hours at 85 °C 2. Low temperature The part shall be subjected to 500 hours at -40 °C | | |
| 06 | Lead Strength | Pull load on the direction of the lead axis for 10 ±1 sec. | | |
| 07 | Vibration | The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours. | | |



| ltem | | Test conditions | Evaluation standard | |
|------|------------------------|--|--|--|
| 08 | Fixed drop | The part shall be mounted on standard pc board and dropped from a height of 152cm onto a concrete floor 5 times in each 6 planes.(a total of 30 times) | After the test the part shall meet | |
| 09 | Free drop | The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times). | specifications without Any degradation in appearance and performance except S.P.L | |
| 10 | Solder heat resistance | Soldering into solderbath : 350±5 ℃ Soaking time : 3.5±0.5 sec | S.P.L shall be 87dB or more. | |
| 11 | Solder ability | Soldering : 250±5℃ / 5 Sec. 350±5℃ / 1.5 Sec Soldering t into solderbath : 250±5℃ Soaking time : 2±0.5 sec | | |
| 12 | Lead strength | Pull lead with a force of 10N,on the direction of the lead axis for 10 :10±1 sec | | |
| 13 | Washability | Solvent : deionized water Solvent temp. : 55±5°C Soaking time : 5±0.5 min. | | |



5.Packing





6. History change record

| Change Items | Date | Note | Drawn by | Checked by |
|--------------|------------|-------------|----------|-------------------|
| | 2020-09-23 | First Issue | Lily | 王台平 2020-09-23 |
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