

MESSRS.

SPECIFICATION FOR APPROVAL**承 認 书**

| | |
|--------------------------|--------------------------|
| Product | MAGNETIC BUZZER |
| Part No. | HX-1003-P4 (RoHS) |
| Customer | |
| Customer Part No. | |

| | | |
|--------------------|--------------------|---------------------|
| Approved By | Checked By | Made By |
| 王台平 OCT-08-2019 | 曹丽萍 OCT-08-2019 | LILY OCT-08-2019 |

常 州 华 龙 电 子 有 限 公 司
DRAGONSTATE ELECTRONIC CORPORATION

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EDITION:1.1

1. Specifications

HX-1003-P4(RoHS)

| Items | | Units | Specifications | Conditions |
|-------|---------------------------|--------------|----------------|---|
| 01 | Rated Voltage | VDC | 3.0 | Response Time 500 mSec |
| 02 | Operating Voltage | VDC | 2~5 | Volts D.C |
| 03 | Consumption Current | mA (Max) | 30 | Applying rated voltage |
| 04 | Direct Current Resistance | Ohm | None | |
| 05 | Sound Output | dBA (min) | 85 | Distance at 10cm,applying rated voltage |
| 06 | Basic Frequency | Hz | 2700± 100 | |
| 07 | Operating Temp. | °C | -20 ~ +70°C | |
| 08 | Storage Temp. | °C | -30 ~ +80°C | |
| 09 | Weight | Gram | 0.75±0.05 | |

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

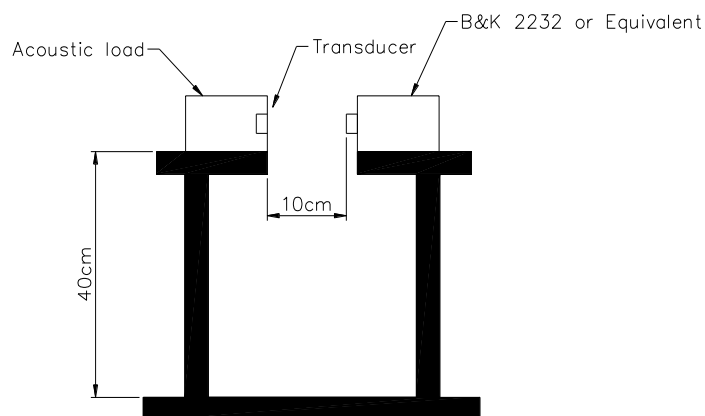
JUDGEMENT

Temperature : 20±3°C

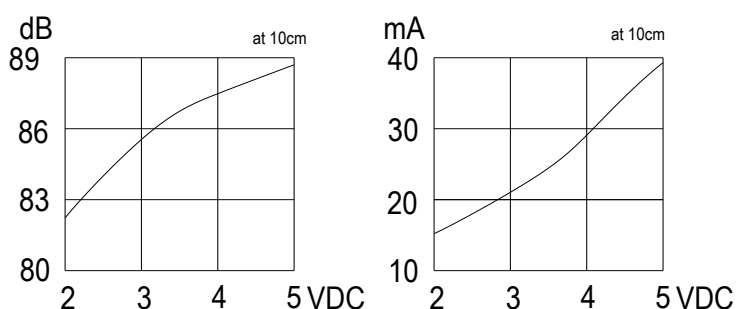
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

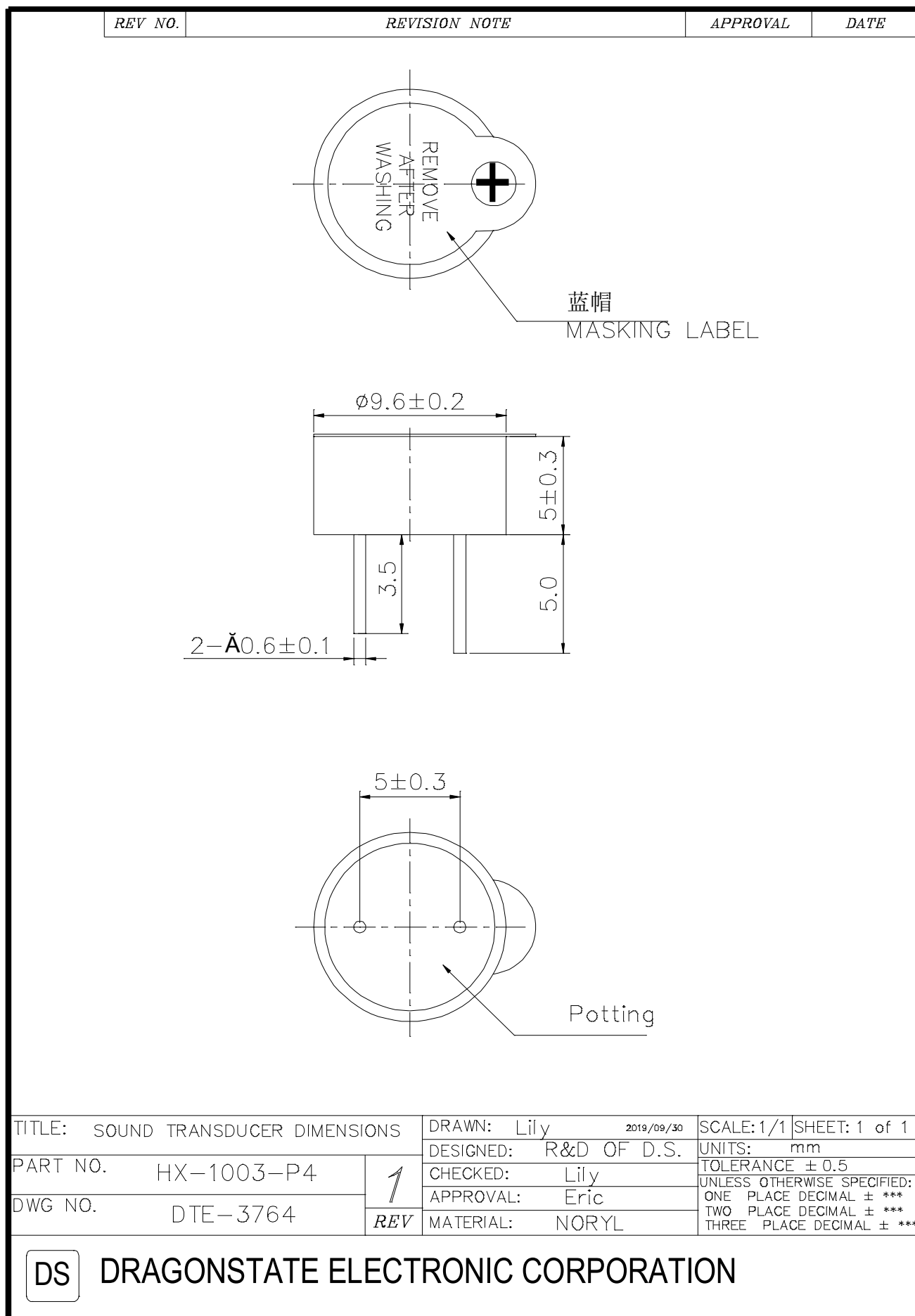
2-3. Standard Test Fixture



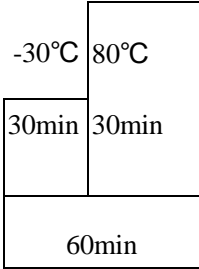
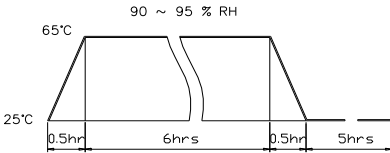
2-4. Frequency Response Curve



3. Dimension


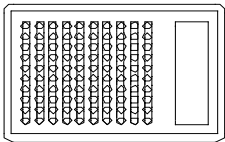
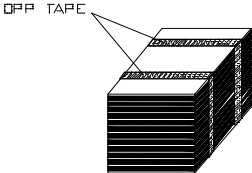
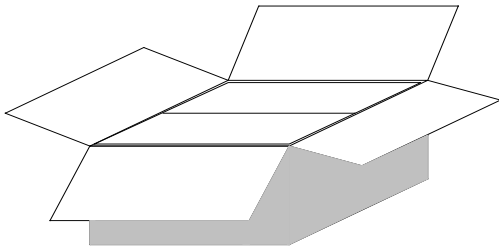


4. Reliability Test

| Item | | Test conditions | Evaluation standard |
|------|------------------------|---|--|
| 01 | High temp.Storage life | The part shall be capable of withstanding a storage Temperature of 80°C for 96 hours. | After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 72dB or more. |
| 02 | Low temp.Storage life | The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours. | |
| 03 | Temp. cycle | The part shall be subjected 10 cycles. One cycle shall consist of; <div style="text-align: center;">  </div> | |
| 04 | Temp./Humidity cycle | The part shall be subjected 10 cycles. One cycle shall be 12 hours and consist of; <div style="text-align: center;">  </div> | |
| 05 | Operating life | Rated Voltage applied. 1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (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. | |

| Item | | 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) | <p>After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>S.P.L shall be 72dB or more.</p> |
| 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). | |
| 10 | Solder heat resistance | Soldering into solderbath : $350\pm 5^{\circ}\text{C}$ Soaking time : 3.5 ± 0.5 sec | |
| 11 | Solder ability | Soldering : $250\pm 5^{\circ}\text{C}$ / 5 Sec. $350\pm 5^{\circ}\text{C}$ / 1.5 Sec Soldering t into solderbath : $250\pm 5^{\circ}\text{C}$ 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. : $55\pm 5^{\circ}\text{C}$ Soaking time : 5 ± 0.5 min. | |

5.Packing

| REV NO. | REVISION NOTE | APPROVAL | DATE |
|--|--|------------------------|------|
| | <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> <p>Cover(240*160*5mm) Material: Paper</p> </div> </div> | | |
| | <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> <p>Box(240*160*29mm) 100pcs Material: Paper+Epe</p> </div> </div> | | |
| | <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> <p>Middle(240*160*250mm) 1000pcs(10*100pcs) Material: Paper+Epe</p> </div> </div> | | |
| | <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div> <p>Outer Box(515*420*280mm) 5000pcs(5*1000pcs) Material: Paper</p> </div> </div> | | |
| | 单位: mm | | |
| TITLE: packing | | DRAWN: Lily 2016/07/12 | |
| PART NO. | | DESIGNED: R&D OF D.S. | |
| DWG NO. | | CHECKED: Emily | |
| | | APPROVAL: Eric | |
| REV 1 | | MATERIAL: *** | |
| | | SCALE: 2:1 | |
| | | SHEET: 1 of 1 | |
| | | UNITS: mm | |
| | | TOLERANCE | |
| | | 20~11 ± 0.3 | |
| | | 10~5 ± 0.2 | |
| | | <4 ± 0.1 | |
| <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 10px;">DS</div> <div>DRAGONSTATE ELECTRONIC CORPORATION</div> </div> | | | |