

## Data Sheet

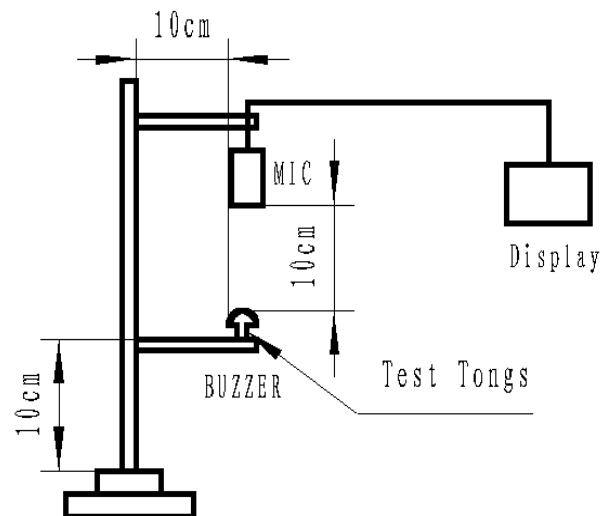
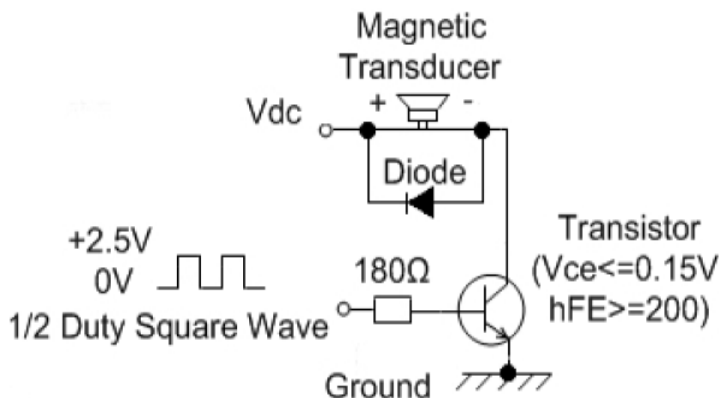
SMT-1035-S-2-R

## Specifications

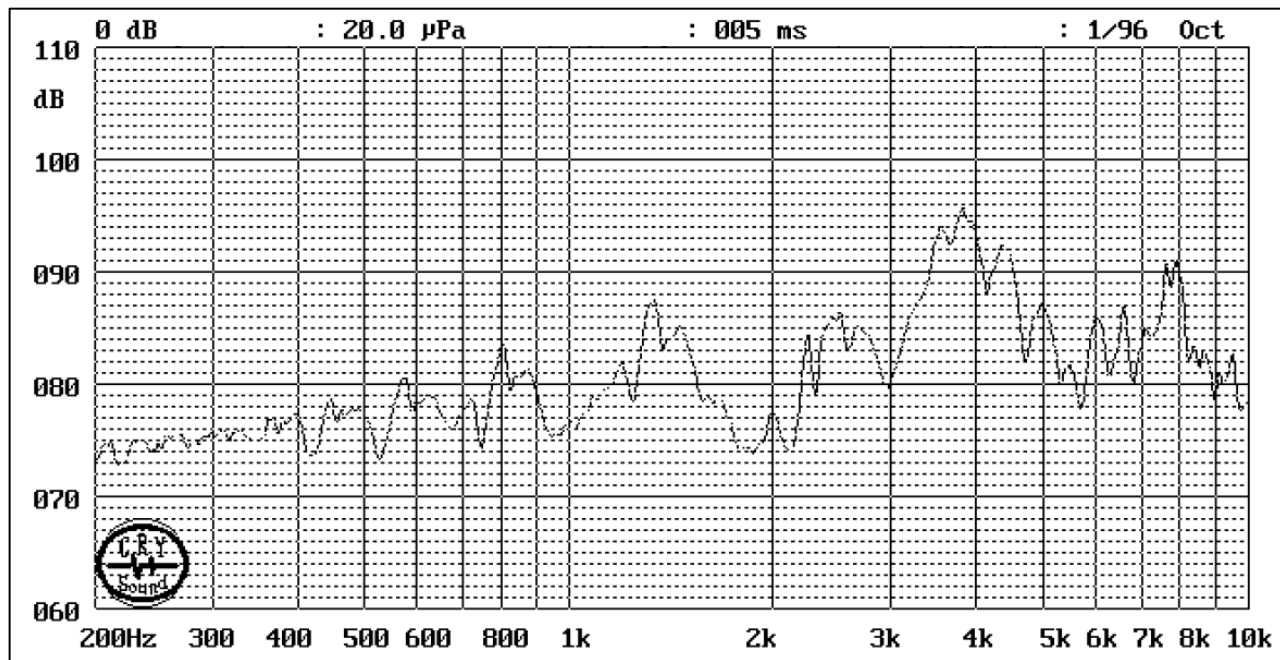
| Parameters                               | Values            | Units   |
|------------------------------------------|-------------------|---------|
| Rated Voltage                            | 3.6               | V0-peak |
| Operating Voltage Range                  | 3 ~ 4.5           | V0-peak |
| Coil Resistance                          | $18 \pm 5$        | Ohms    |
| Resonant Frequency                       | $3500 \pm 20\%$   | Hz      |
| Minimum SPL @ 10cm<br>(at rated voltage) | 90                | dBA     |
| Max Current Consumption*                 | 100               | mA      |
| Case Material                            | Black LCP         | -       |
| Terminal Material                        | Gold-plated Brass | -       |
| Operating Temperature                    | -20 ~ +70         | °C      |
| Storage Temperature                      | -40 ~ +85         | °C      |
| Weight                                   | 0.8               | Grams   |

\*With rated voltage applied at resonant frequency with a 50% duty cycle square wave

## Measurement Method

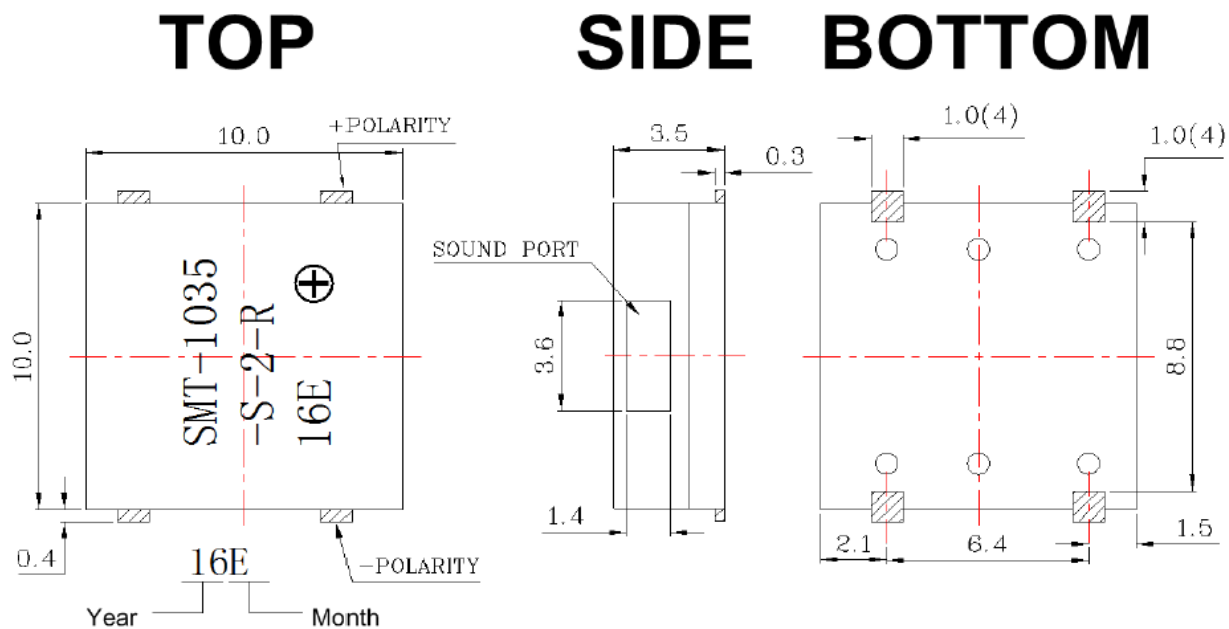


## Frequency Response (measured with 3.6V @ 10cm)

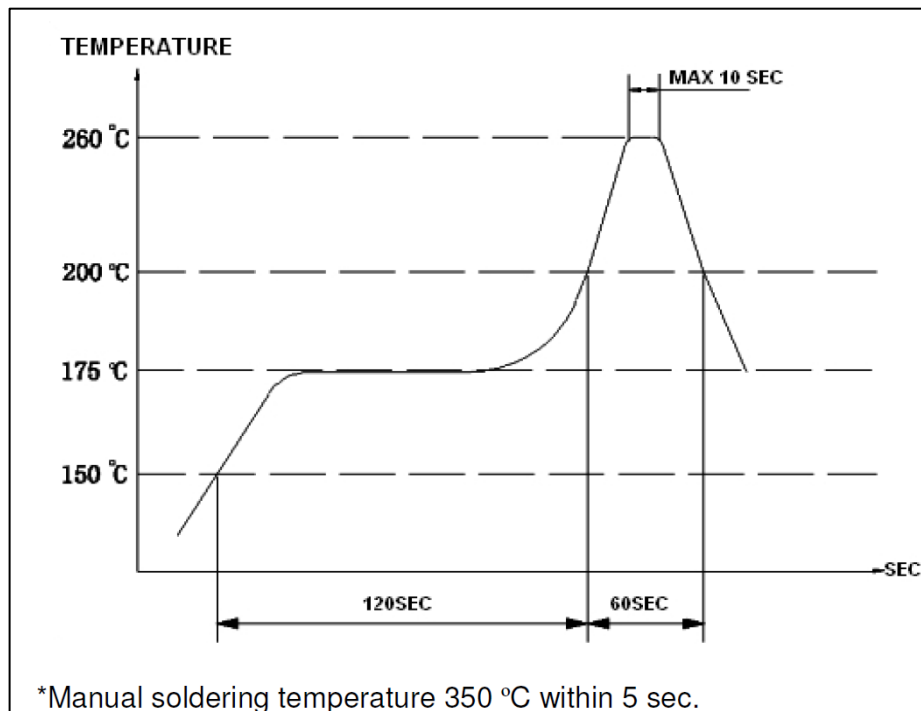


## Dimensions (in mm)

Tolerance  $\pm 0.5$ mm except where specified



## Recommended Reflow Profile

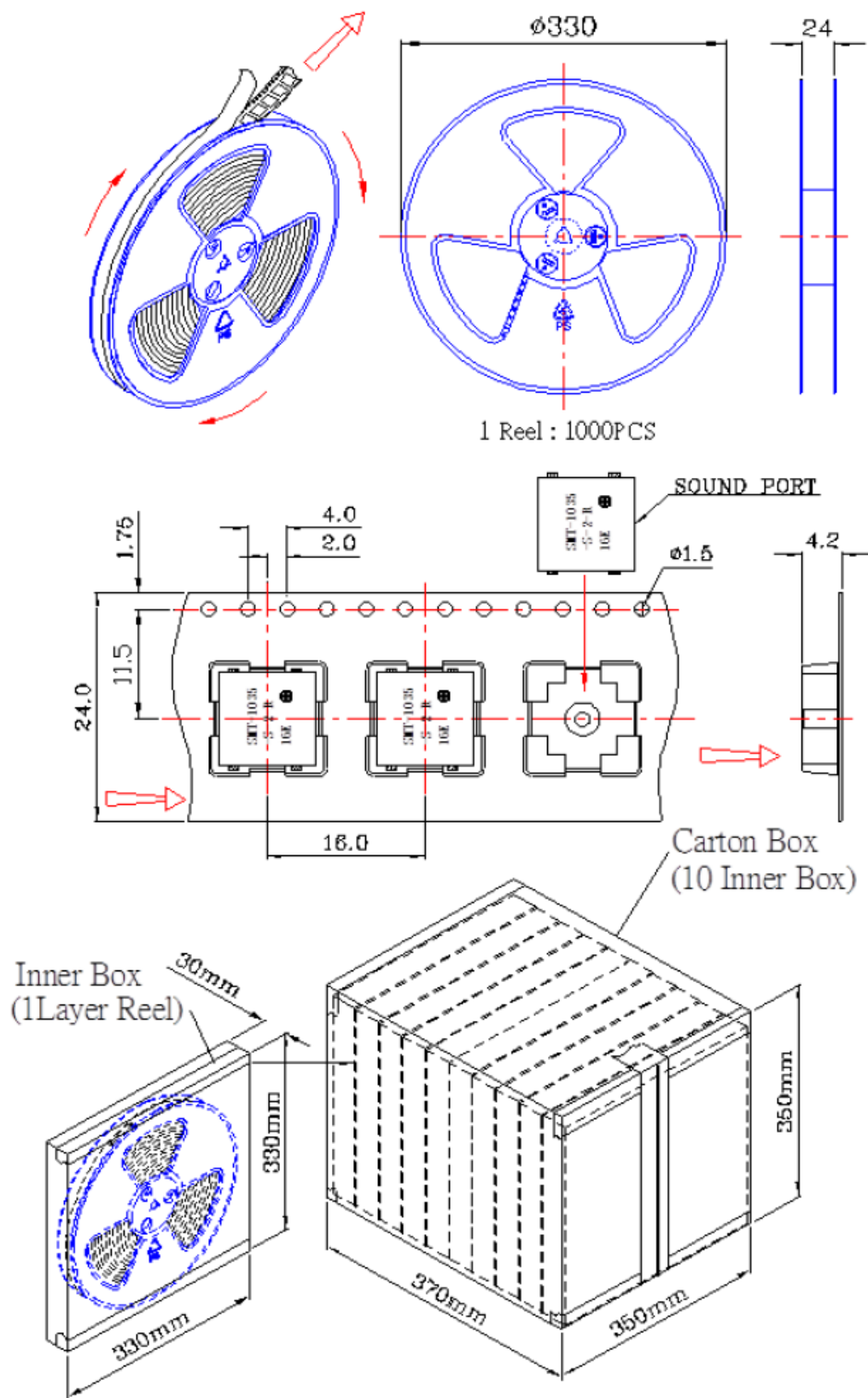


## Reliability Testing

| Type of Test              | Test Specifications                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Temperature Test     | 96 hours at +85°C ± 2°C followed by two hours in normal room temperature                                                                                                                                        |
| Low Temperature Test      | 96 hours at -40°C ± 2°C followed by two hours in normal room temperature                                                                                                                                        |
| Humidity Test             | 96 hours at +40°C ± 3°C with relative humidity at 90%~95% followed by two hours in normal room temperature                                                                                                      |
| Temperature Cycle Testing | The part shall be subjected to 5 cycles using the following procedure:<br>Low temperature: -40°C±3°C<br>High temperature: +85°C±3°C<br>Cycle: 30 mins at low, 15 mins at 20°C, 30 mins at high, 15 mins at 20°C |
| Vibration Test            | 10 to 55 Hz @ 1.5mm amplitude<br>2 hours in each axis X, Y, and Z.                                                                                                                                              |
| Drop Test                 | Drop part from 75cm onto 40mm thick board, twice per side                                                                                                                                                       |
| Shock Test                | Apply 980m/s <sup>2</sup> shock to part three times in each axis X, Y, and Z                                                                                                                                    |

**After the test the part shall meet specifications without any degradation in appearance and performance except SPL shall be initial value±10dB or more.**

# **Packaging** 1,000 pieces per reel, 10 reels per master carton, 10,000 pieces per master carton



**Specifications Revisions**

| <b>Revision</b> | <b>Description</b>        | <b>Date</b> |
|-----------------|---------------------------|-------------|
| -               | Released from Engineering | 1/30/2018   |

**Note:**

1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5\text{mm}$  and angles are  $\pm 3^\circ$ .
2. Specifications subject to change or withdrawal without notice.
3. This part is RoHS 2011/65/EU Compliant.

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