
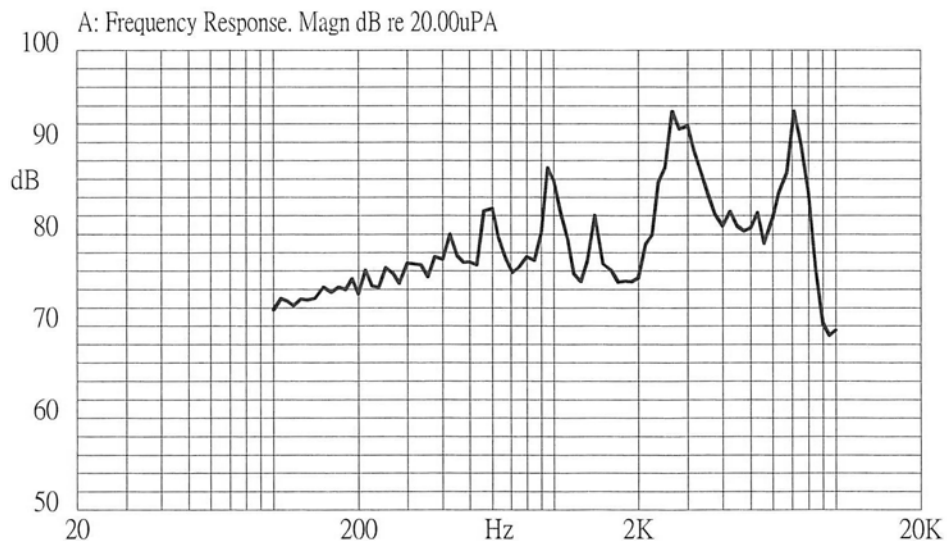
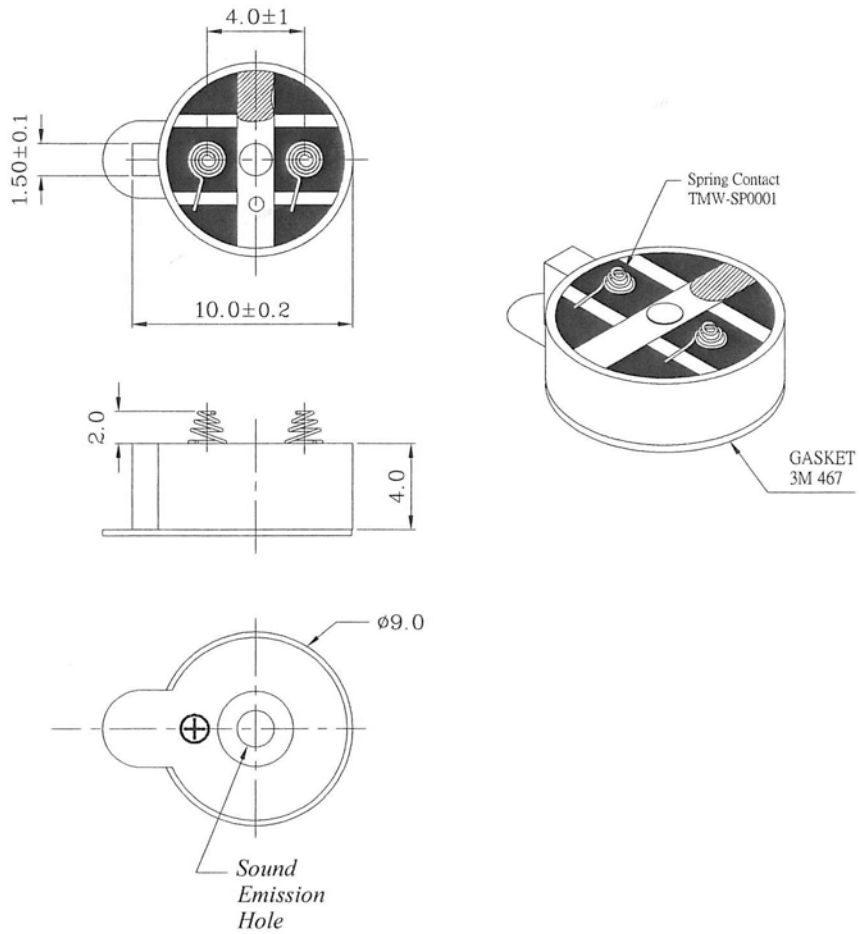
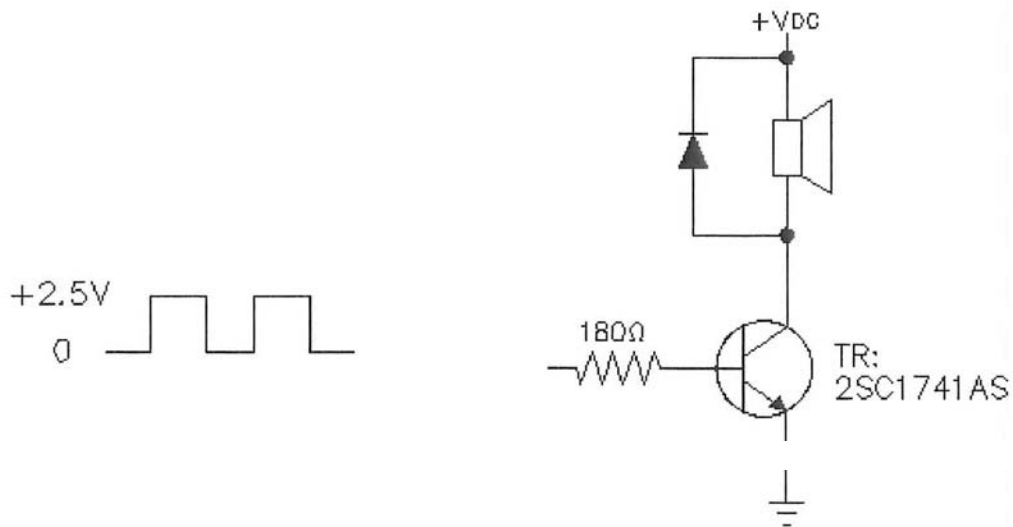



**Specifications**

Rated voltage	3.0 Vo-p	
Operating voltage	2.0 - 4.5 Vo-p	
Mean current	80 mA max.	
Coil resistance	20 ±3 Ω	Applying rated voltage, 2730 Hz square wave, ½ duty
Sound output	Min. 90 (Typical 95) dBA	Distance at 5cm (A-weight free air). Applying rated voltage of 2730 Hz, square wave, ½ duty.
Rated frequency	2730 Hz	
Operating temperature	-20 ~ +60° C	
Storage temperature	-30 ~ +70° C	
Dimensions	ø9.0 x H4.0 mm	See attached drawing
Weight	1.0 g	
Material	PPO (Black)	
Terminal	Spring type (Au Plating)	See attached drawing
RoHS	yes	

**Frequency Response Curve**


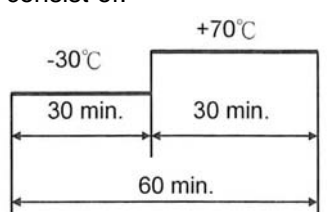
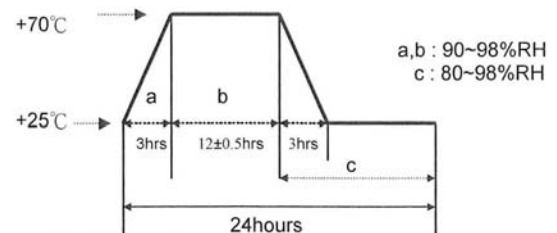
**Appearance Drawing**

 Tolerance:  $\pm 0.5$ 

**Measurement Method**


**Mechanical Characteristics**

Item	Test Condition	Evaluation Standard
Vibration	The buzzer will be measured after applying a vibration amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	After the test, the part shall meet specifications without any damage to the appearance and the SPL should be within $\pm 10$ dBA of the initial SPL.
Drop Test	The part is to be dropped from a height of 75 cm onto a 40 mm thick wooden board 3 times in 3 axis (X, Y, Z) for a total of 9 drops.	

**Environment Test**

Item	Test Condition	Evaluation Standard
High temp. test	The part will be subjected to +70°C for 96 hours.	After the test, the part shall meet specifications without any damage to the appearance. After 4 hours at +25°C, the SPL should be within $\pm 10$ dBA of the initial SPL.
Low temp. test	The part will be subjected to -30°C for 96 hours	
Thermal shock	The part will be subjected to 10 cycles. One cycle will consist of: <div style="text-align: center;">  </div>	
Temp./Humidity cycle	The part shall be subjected to 10 cycles. One cycle will last for 24 hours and consist of: <div style="text-align: center;">  </div>	

**Mechanical Characteristics**

<b>Item</b>	<b>Test Condition</b>	<b>Evaluation Standard</b>
Operating (Life Test)	1. Continuous life test: The part will be subjected to 72 hours at +45°C with 3 V, 2730 Hz applied.  2. Intermittent life test: A duty cycle of 1 minute on, 1 minute off, a minimum of 10,000 times at room temp (+25±10°C) with 3 V, 2730 Hz applied.	After the test, the part shall meet specifications without any damage to the appearance. After 4 hours at +25°C, the SPL should be within ±10 dBA of the initial SPL.

**Test Conditions**

Standard Test Condition	a) Temperature: +5 ~ +35°C	b) Humidity: 45 - 85%	c) Pressure: 860 - 1060 mbar
Judgement Test Condition	a) Temperature: +25±2°C	b) Humidity: 60 - 70%	c) Pressure: 860 - 1060 mbar

**Packaging**
