

# SPECIFICATION

## SHEET FOR APPROVAL

**MULTI-FUNCTIONAL TRANSDUCER (2 MODES: RECEIVER & SPEAKER)**

**MODEL NUMBER: M3075-8B-1E10R (Φ30mm 8Ω 1.5W)**

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

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1. **SCOPE** This specification cover our product of mylar speaker unit for use in DVD, telephone, alarm system and calling system.
  
2. **ELECTRICAL AND ACOUSTICAL CHARACTERISTIC**
  2. 1 **SOUND PRESSURE LEVEL (S.P.L)**  
 Sound pressure level shall be indicated by the mean value of those measured at the specified frequency range. **93±3 dB** at **1200、1500、1800、2000** Hz in average.  
**Measure Condition:** sin swept measurement at **0.1W** on axis at **0.1M**  
**Measurement Circuit:** shown in Fig. 2.
  
  2. 2 **RESONANCE FREQUENCY(FO):720±20%Hz** at 1V.(NO Baffle )  
**Measurement Circuit:**Shown in Fig.2.
  
  2. 3 **RATED IMPEDANCE: 8±20% Ω** (at 1KHz, 1V)  
**Measure Condition:**the impedance response is measured with Mylar speaker.  
**Measurement Circuit:** shown in Fig. 2.
  
  2. 4 **FREQUENCY RANGE: Fo~12KHz** (Deviation 10dB from average S.P.L.)  
**Frequency Response Curve:**Shown in Fig.3.Whit IEC Baffle plate.  
**Frequency Response Measurement Circuit:** Shown in Fig.2.
  
  2. 5 **RATED INPUT POWER (CONTINUUM):1.5**
  
  2. 6 **MAX INPUT POWER (SHORT-TERM):2.0**  
 Testing will be done using IEC filter with white noise source for 1 minute with no degradation in performance.
  
  2. 7 **TOTAL HARMONIC DISTORTION:** Less than 5% at 1KHz,**1.5**  
**Measurement Circuit:**Shown in Fig.2.
  
  2. 8 **OPERATION:** Must be normal at sine wave and program source **2.0**
  
  2. 9 **POLARITY:** When a positive DC current is applied to the terminal marked(+),Diaphragm shall move forward. Marking: **R K**  
**8 Ω 1.5W**  
**XXXX**  
**- +**
  
  2. 10 **PURE SOUND DETECTION:**  
 Buzz,Rattle,etc Should not be audible at **4.0 VRMS** sine wave from **Fo ~ 7KHz**.

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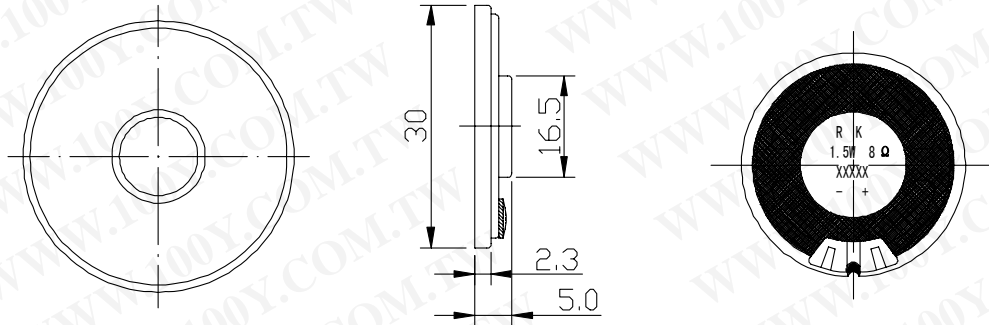
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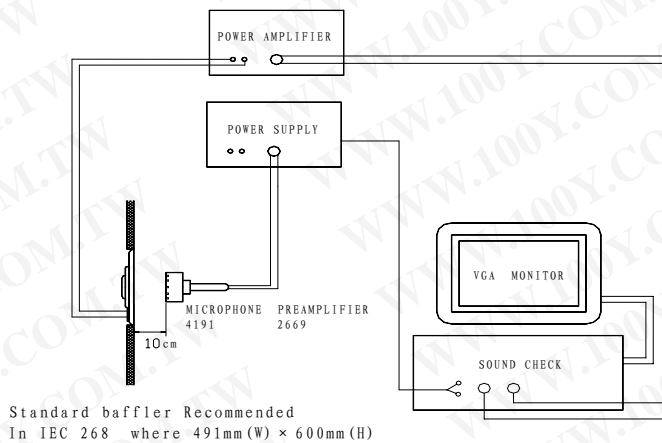
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### 3. DIMENSIONS (Fig.1)

Unless otherwise specified, tolerance:  $\pm 0.3$  (unit: mm)



### 4. FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.2)

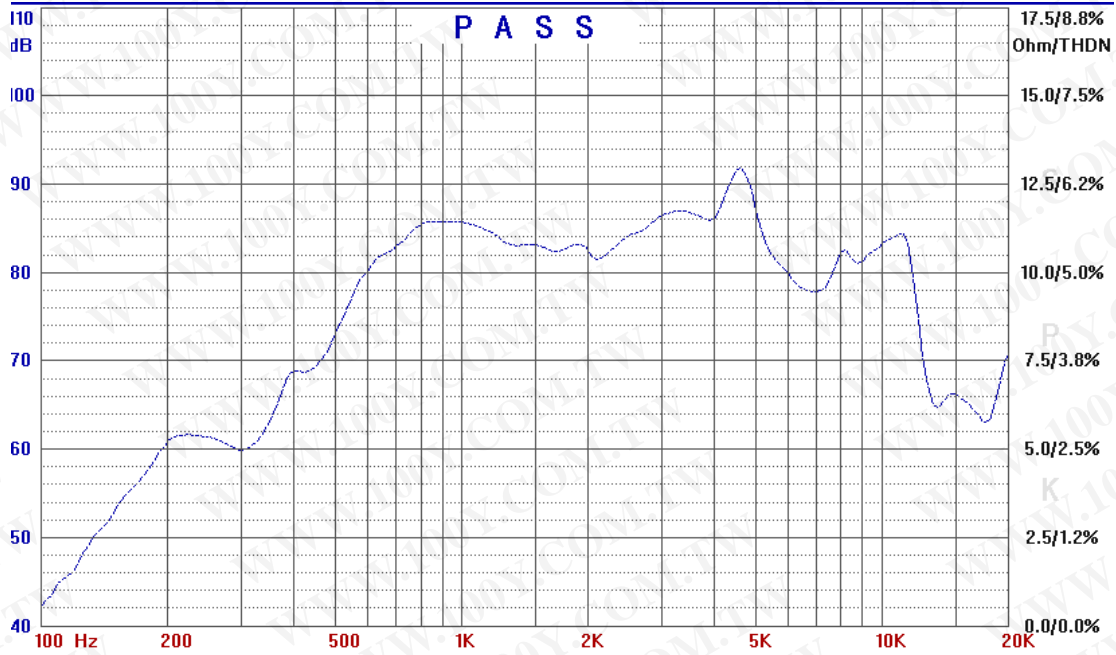


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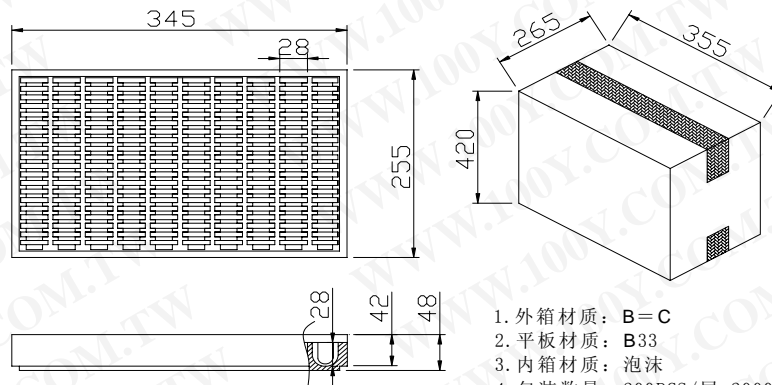
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## 5. FREQUENCY RESPONSE MASK & TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig. 3)



## 6. PACKAGING EXPLAIN



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## 7. RELIABILITY TESTS

The sound pressure as specified shall neither deviate more than  $\pm 3\text{dB}$  from the initial value, nor any significant damage after any of following testing.

### 7.1 HIGH TEMPERATURE TEST

High temperature:  **$+55\pm 2^\circ\text{C}$**

Duration: **48 hours**

### 7.2 LOW TEMPERATURE TEST

Low temperature :  **$-20\pm 2^\circ\text{C}$**

Duration: **24 hours**

### 7.3 HEAT SHOCK TEST (See in Fig.6)

High temperature:  **$+55\pm 2^\circ\text{C}$**

Low temperature:  **$-20\pm 2^\circ\text{C}$**

Changeover time: **< 30 seconds**

Duration: **45 minutes**

Cycle: **10**

### 7.4 HUMIDITY TEST

Temperature:  **$+20\pm 2^\circ\text{C}$**

Relative humidity: **90~95%**

Duration: **24 hours**

### 7.5 TEMPERATURE CYCLE TEST

Temperature:  **$-20^\circ\text{C}$                        $+55^\circ\text{C}$**

Duration: **45 minutes                      45 minutes**

Temperature gradient:  **$1\sim 3^\circ\text{C}/\text{min.}$**

Cycle: **10**

### 7.6 DROP TEST

Height: **1.0 m**

Cycle: **6 (1 each plain)  
onto the concrete board**

### 7.7 LOAD TEST

Speaker mode: White noise (EIA filter) for **48 hours** @ **1.5W** input power  
@ **20-20KHz.**

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