

SPECIFICATION

SHEET FOR APPROVAL

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

MODEL NUMBER: M5075-8B-2H12R (Φ50mm 8Ω 1.0W)

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. **86 ± 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(F0):400 ± 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: F0~20KHz** (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):1.0W**

 2. 6 **MAX INPUT POWER (SHORT-TERM):2.0W**
 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, **1.0W**
Measurement Circuit:Shown in Fig.2.

 2. 8 **OPERATION:** Must be normal at sine wave and program source **2.0W**.

 2. 9 **POLARITY:** When a positive DC current is applied to the terminal marked(+), Diaphragm shall move forward. Marking:

 2. 10 **PURE SOUND DETECTION:**
 Buzz,Rattle,etc Should not be audible at**5.6VRMS** sine wave from **300 ~ 3KHz**.

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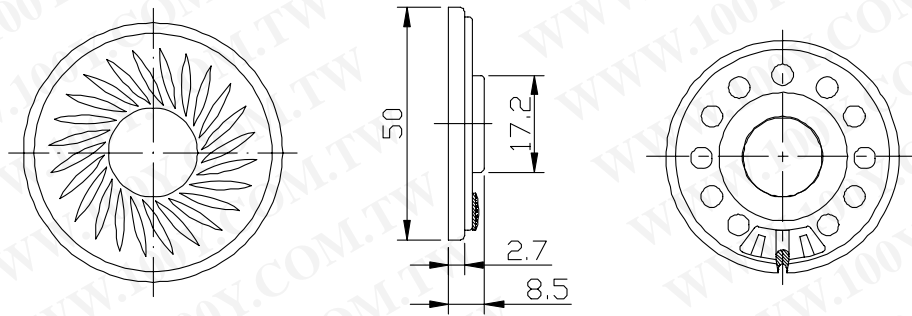
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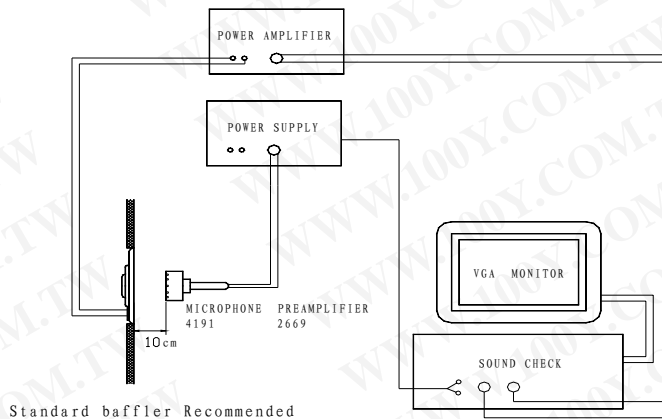
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3. DIMENSIONS (Fig.1)

Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



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



Standard baffle Recommended
In IEC 268 where 491mm(W) × 600mm(H)

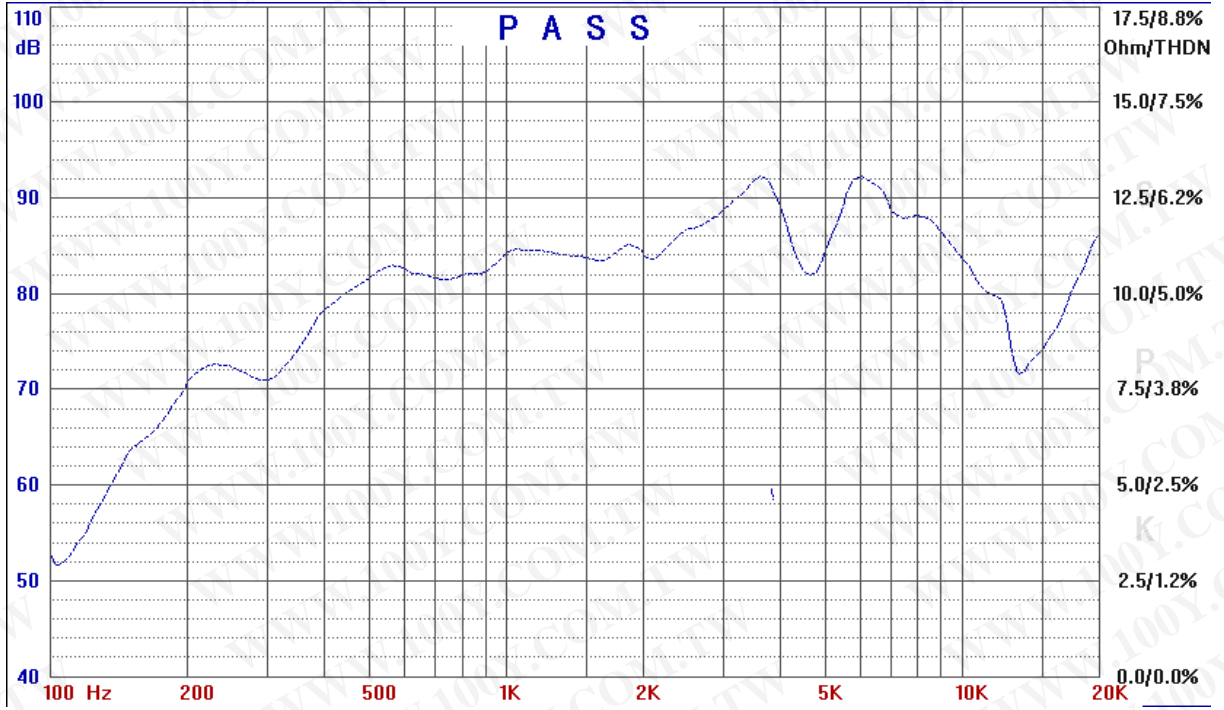
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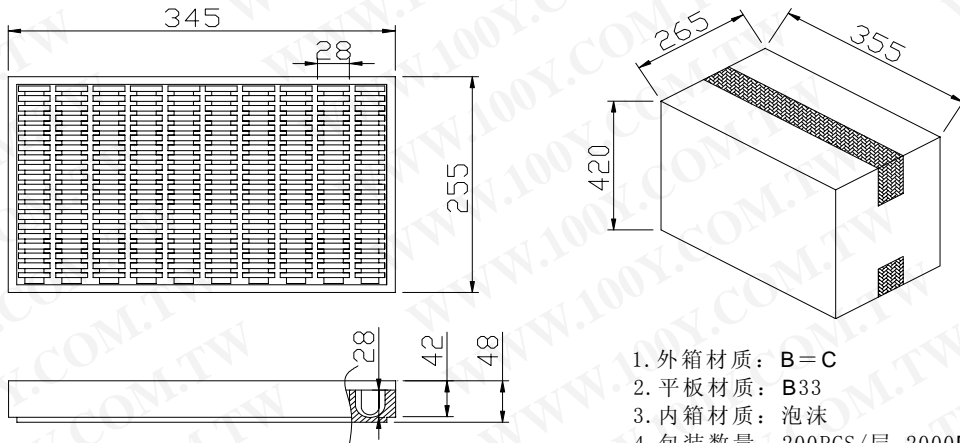
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5. FREQUENCY RESPONSE MASK & TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig. 3)



6. PACKAGING EXPLAIN



1. 外箱材质: B=C
2. 平板材质: B33
3. 内箱材质: 泡沫
4. 包装数量: 200PCS/层 2000PCS/箱

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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±2°C
 Duration: 24 hours

7.2 LOW TEMPERATURE TEST

Low temperature : -20±2°C
 Duration: 24 hours

7.3 HEAT SHOCK TEST (See in Fig.6)

High temperature: +55±2°C
 Low temperature: -20±2°C
 Changeover time: < 30 seconds
 Duration: 45 minutes
 Cycle: 10

7.4 HUMIDITY TEST

Temperature: +20±2°C
 Relative humidity: 90~95%
 Duration: 24 hours

7.5 TEMPERATURE CYCLE TEST

Temperature: -20°C +55°C
 Duration: 45 minutes 45 minutes
 Temperature gradient: 1~3°C/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 @ 1.0W input power
@ 20-20KHz.

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