

兴化市华宇电子有限公司

SPECIFICATION

SHEET FOR APPROVAL

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

CUSTOMER: _____

MODEL NUMBER: L2040-8B-2F28R (Φ 20*40mm 8 Ω 2W) _____

CUSTOMER PART NUMBER: _____

	DESIGNED	CHECKED	APPROVED
SIGNATURE	AricZhu	朱尚书	
DATE	2012-6-28	2012-6-28	

CUSTOMER CONFIRMATION

SIGNATURE: _____

DATE: _____

SPECIFICATION

P2/5

MODEL NO.

L2040-8B-2F28R

UPDATE

V00

ISSUED DATE

2012-6-28

1. **SCOPE** This specification cover our product of mylar speaker unit for use in DVD, telephone, alarm system and calling system.
2. **ELECTRICAL ANDACOUSTICAL 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. **81±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):980±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~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): 2.0W**
 2. 6 **MAX INPUT POWER (SHORT-TERM): 2.0W**

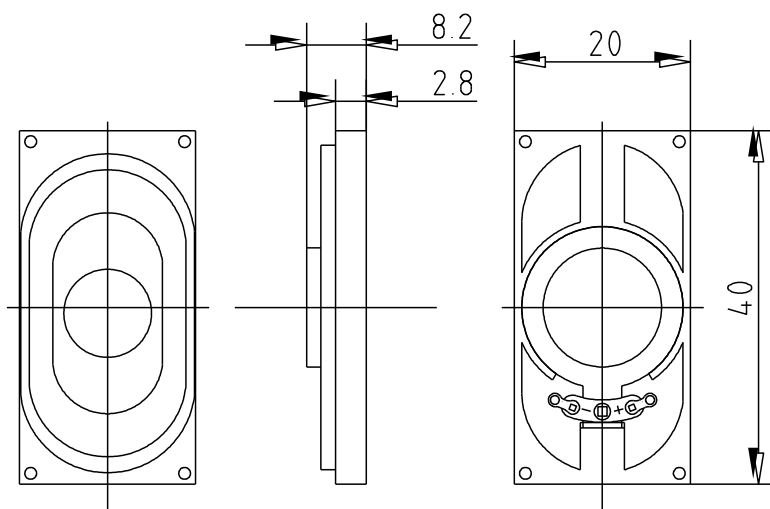
Testing will be done using IEC filter with white noise source for 1 minute with no degradation in performance.
 2. 7 **TOTAL HARMONIC DISTORTION:** Less than 5% at 1KHz, **2.0W**
Measurement Circuit:Shown in Fig.2.
 2. 8 **OPERATION:** Must be normal at sine wave and program source **2.0W.**
 2. 9 **POLARITY:** 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 **4 VRMS** sine wave from **Fo ~ 10KHz.**

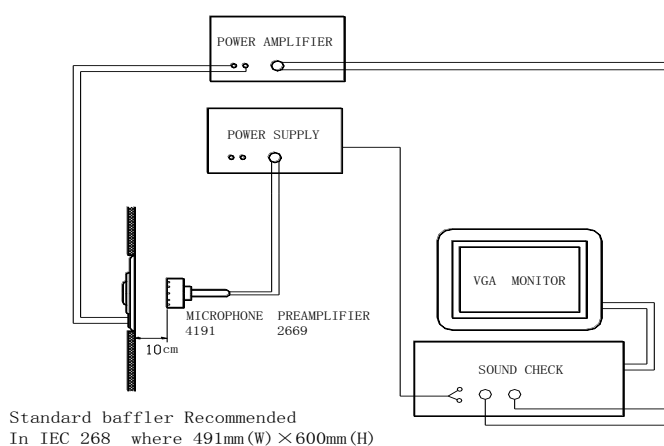
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3. DIMENSIONS (Fig.1)

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



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



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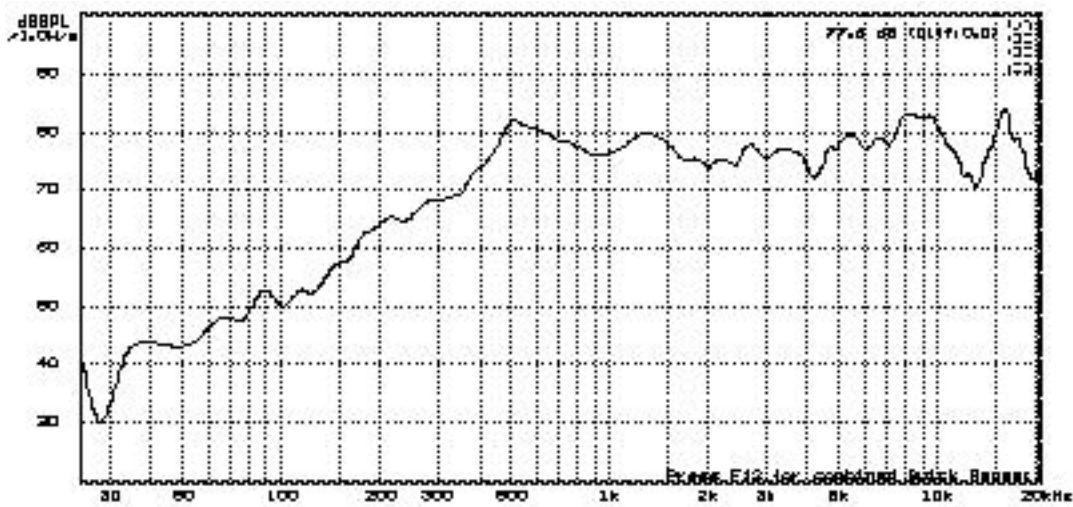
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SPECIFICATION

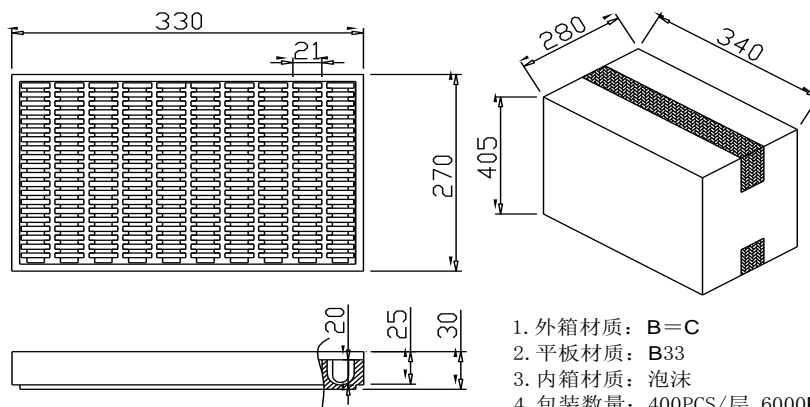
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5. FREQUENCY RESPONSE MASK & TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig. 3)



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: 400PCS/层 6000PCS/箱

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<p>7. RELIABILITY TESTS ± The sound pressure as specified shall neither deviate more than ±3dB from the initial value, nor any significant damage after any of following testing.</p> <p>7.1 HIGH TEMPERATURE TEST High temperature: +55±2℃ Duration: 24 hours</p> <p>7.2 LOW TEMPERATURE TEST Low temperature : -20±2℃ Duration: 24 hours</p> <p>7.3 HEAT SHOCK TEST (See in Fig.6) High temperature: +55±2℃ Low temperature: -20±2℃ Changeover time: < 30 seconds Duration: 45 minutes Cycle: 10</p> <p>7.4 HUMIDITY TEST Temperature: +20±2℃ Relative humidity: 90~95% Duration: 24 hours</p> <p>7.5 TEMPERATURE CYCLE TEST Temperature: -20℃ +55℃ Duration: 45 minutes 45 minutes Temperature gradient: 1~3℃/min. Cycle: 10</p> <p>7.6 DROP TEST Height: 1.0 m Cycle: 6 (1 each plain) onto the concrete board</p> <p>7.7 LOAD TEST Speaker mode: White noise (EIA filter) for 24 hours @ 2.0W input power @20-20KHz.</p>						
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