SPECIFICATION

SHEET FOR APPROVAL

ER: M2850-8	3-0L03R (Ф28n	m 8Ω 0.5W)
ER: M2850-8	3-0L03R (Ф28n	<u>ım 8Ω 0.5W</u>

	DESIGNED	CHECKED	APPROVED
SIGNATURE	AricZhu	朱尚书	
DATE	2011-7-5	2011-7-5	

CUSTOMER CONFIRMATION	
SIGNATURE:	
DATE: _	

SPECIFICATION						P2/5	
MODEL NO.	MODEL NO. M2850-8B-0L03R UPDATE V00 ISSUED DATE 2011-7-5						

- 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. 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):680±20% Hz at 1V.(NO Baffle) Measurement Circuit:Shown in Fig.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~10KHz (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): 0.25W
- 2. 6 MAX INPUT POWER (SHORT-TERM): 0.5W

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,**0.25**W Measurement Circuit:Shown in Fig.2.
- 2. 8 **OPERATION:** Must be normal at sine wave and program source **0.5W**
- 2. 9 **POLARITY:** When a positive DC current is applied to the terminal 800.5W marked(+),Diaphragm shall move forward. Marking:
- 2. 10 PURE SOUND DETECTION:

Buzz,Rattle,etc Should not be audible at 2.8 VRMS sine wave from Fo ~ 7KHz.

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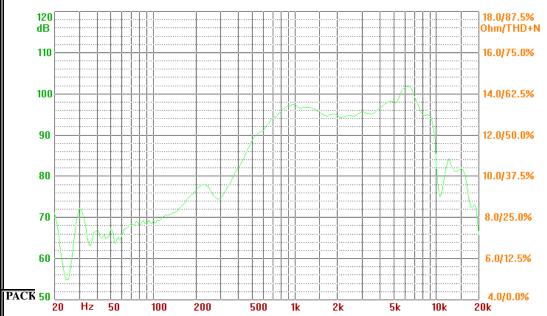
3. DIMENSIONS (Fig.1)

Unless otherwise specified, tolerance: ±0.3 (unit: mm)

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

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$\textbf{5.} \ \textbf{FREQUENCY} \ \textbf{RESPONSE} \ \textbf{MASK} \ \textbf{\&} \ \textbf{TYPICAL} \ \textbf{FREQUENCY} \ \textbf{RESPONSE} \ \textbf{CURVE} \\ \textbf{(SPEAKER MODE)} \ \textbf{(Fig. 3)}$



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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.

7.1 HIGH TEMPERATURE TEST

High temperature: +55±2°C Duration: 96 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 96 hours @ 1.0W input power @20-20KHz.

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