

SAMPLE APPROVAL

(Revision: 2021A Update: 00)

CUSTOMER:

PRODUCTS: SPEAKER

MODEL NUMBER: GST2030-95-6

CUSTOMER PART NUMBER: 项目

CONCISE DESCRIPTION: 20*30* 8 欧 1W L=60MM

	PREPARED	CHECKED	APPROVED
SIGNATURE			
DATE			

CUSTOMER CONFIRMATION

SIGNATURE: _____

DATE: _____

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SPECIFICATION		MODEL NO.	GST2030-95-6	P2/6
PRODUCE DATE	2021-1-20			
REVERSION	2021A	UPDATE	00	

1. SCOPE

Your orders of sample are performed subject to your instructions please be acknowledged and approve

2. MECHANICAL LAYOUT & DIMENSIONS: Shown in Fig.1

3. GENERAL REQUIREMENTS

3.1 OPERATING TEMPERATURE RANGE: -20°C ~ +60°C

3.2 STANDARD TEST CONDITIONS:

Temperature: 17~25°C

Relative Humidity: 45%~80%(RH)

Air Pressure: 860~1060 hPa

3.3 JUDGEMENT CONDITIONS:

Temperature: 20±2°C

Relative Humidity: 60%~70%(RH)

Air Pressure: 860~1060 hPa

4. SPEAKER MODE

4.1 IMPEDANCE: $8 \pm 15\% \Omega$ (At:1KHz 1V) without baffler.

4.2 SOUND PRESSURE LEVEL : $90 \pm 3\text{dB S.P.L}$ At:0.8K, 1K, 1.2K, 1.5KHz AVE (0dB SPL=20μPa)

Measuring condition: 0.1W (Sine wave) 10cm measured with baffler shown in Fig.2.

4.3 MEASURING DIAGRAM: Shown in Fig.2.

4.4 TYPICAL FREQUENCY RESPONSE CURVE: Shown in Fig.3. (Or see the enclosure1)

4.5 RESONANCE FREQUENCY (F₀): $900 \pm 20\% \text{ Hz @ 1V}$. (Without baffler)

4.6 RATED POWER: 2.0W. MAX. POWER:2.5W.

4.7 FREQ RESPONSE: F₀ to 10kHz.(Output S.P.L. -10dB)

4.8 BUZZER & RATTLES:

Should not be audible buzz and rattle at 2.5V Sine wave between 200 to 5 kHz .

4.9 DISTORTION: < 5% Maximum (at : 1.0W 1000Hz)

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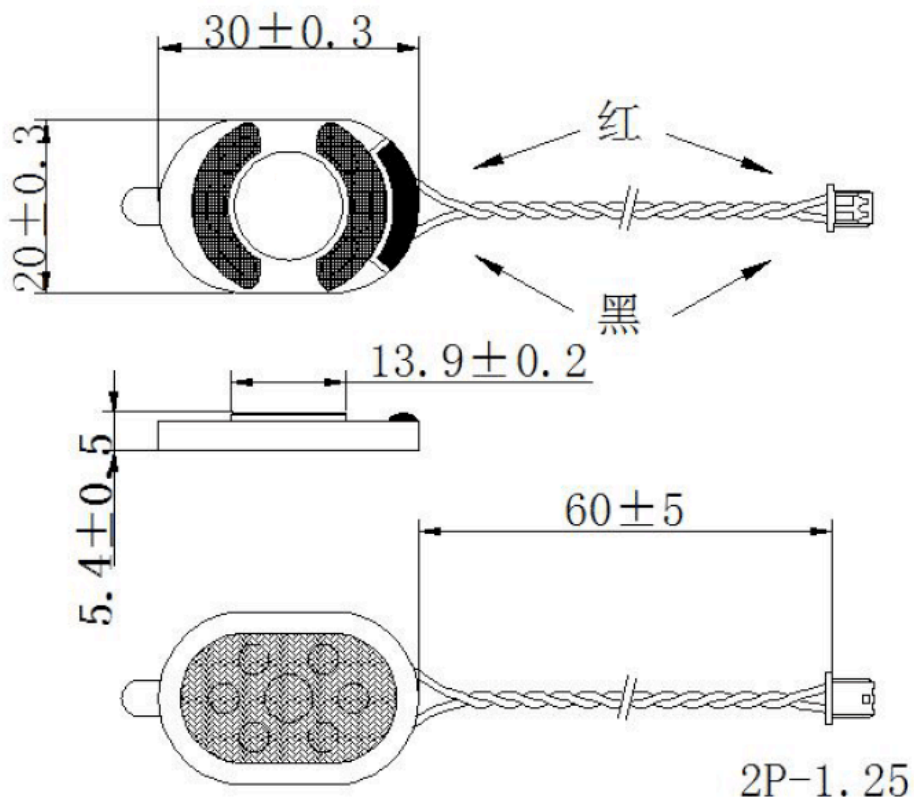
SPECIFICATION		MODEL NO.	GST2030-95-6	P3/6	
PRODUCE DATE	2016-05-07				
REVERSION	2016A	UPDATE	00		
5. RELIABILITY TESTS					
The sound pressure as specified shall neither deviate more than ± 3 dB from the initial value, nor any significant damage after any of following testing.					
5.1 HIGH TEMPERATURE TEST					
High temperature: +60 \pm 3°C					
Duration: 96 hours					
5.2 LOW TEMPERATURE TEST					
Low temperature : -20 \pm 3°C					
Duration: 96 hours					
5.3 HEAT SHOCK TEST (See in Fig.4)					
High temperature: +60 \pm 3°C					
Low temperature: -20 \pm 3°C					
Changeover time: 20 ~ 40 minutes					
Duration: 2hour					
Cycle: 2					
5.4 HUMIDITY TEST					
Temperature: +40 \pm 3°C					
Relative humidity: 90~95%					
Duration: 96 hours					
5.5 VIBRATION TEST					
Frequency: 10~55Hz/min					
Amplitude: 1.5mm					
Duration: 2 hours each axes					
5.6 DROP TEST (Speaker in approved fixture, see in Fig.5)					
Height: 1.0 m					
Cycle: 6 (1 each plain)					
onto the concrete board					
5.7 LOAD TEST					
Speaker mode: White noise (EIA filter) for 96 hours @ 0.8W input power.					
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PRODUCE DATE	2016-05-07			
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6. DIMENSIONS (Fig.1)

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

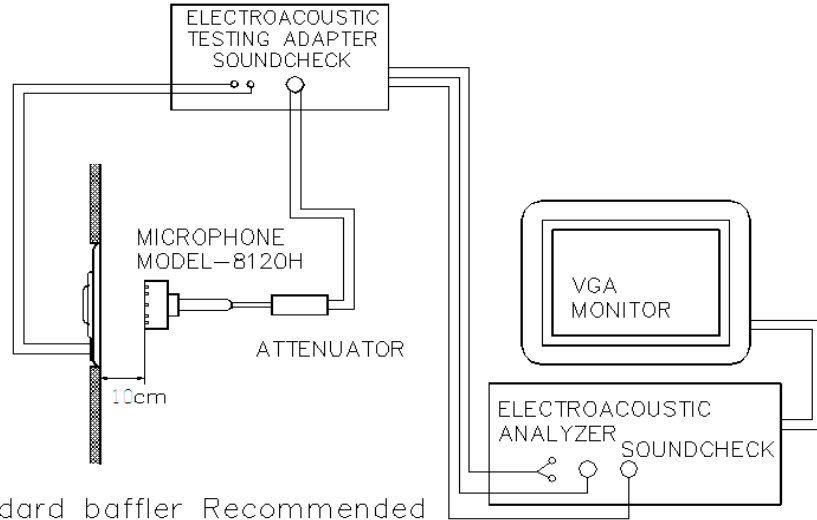
19. APPEARANCE DRAWING 外观尺寸图



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PRODUCE DATE	2016-05-07			
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■ **FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.2)**

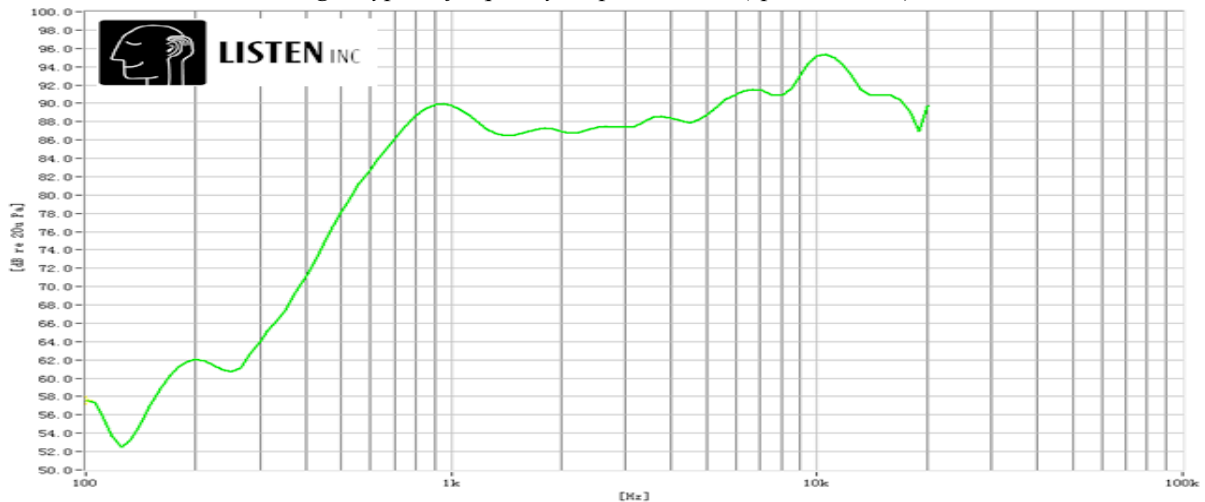


Standard baffle Recommended
In IEC 268

Fig.2 Illustration of measuring diagram (speaker mode)

■ **TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig.3)**

Fig.3 Typical frequency response curve (speaker mode)



Ave Sens.=88.7 dBSPL F0= 900 HZ DCR.=8Ω Voltage applied for F.R.=0.89V Start F.=100Hz Stop F.=20000Hz

测试条件: 0.1W 0.1M 800 1000 1200 1500 Hz

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■ **HEAT SHOCK TEST (Fig.4)**

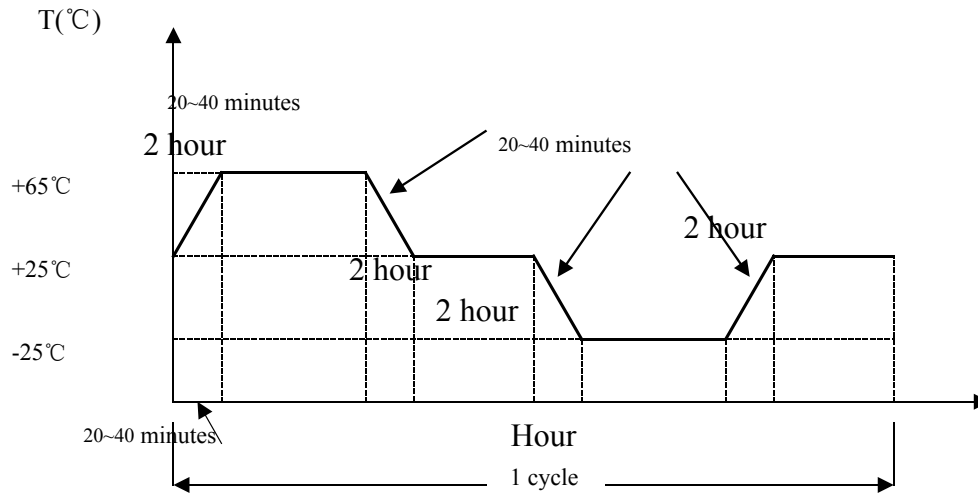


Fig.4 Illustration of heat shock test

■ **DROP TEST (Fig.5)**

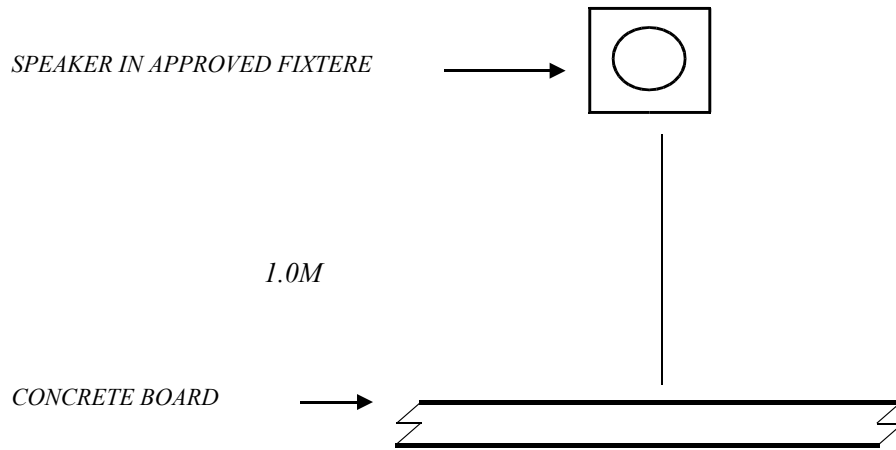


Fig.5 Illustration of drop test

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