

SPEAKER SPECIFICATIONS

(扬声器规格书)

PRODUCT NO. **HSB30C-8**
(产品型号)

ISSUED DATE: NOV.05,2007

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Shen Zhen Tianer Technology CO.,Ltd.
深圳市天尔科技有限公司

SPECIFICATIONS

(规格要求)

	OUR PART NO. 本厂型号	<i>HSB30C-8</i>
ITEMS 项目	SPECIFICATIONS 规格	TEST CONDITION 测试条件
RATED INPUT POWER 定格入力	<i>1W</i>	
MAX INPUT POWER 最大入力	<i>1.5W</i>	
OUTPUT S. P. L. 出力音压	<i>89 ± 3dB</i>	<i>0.1m 0.1W</i> <i>Average at 800 1K, 1.2K 1.5K Hz</i>
IMPEDANCE 阻抗	<i>8 Ω ± 15%</i>	<i>At 1KHz 1V</i>
RESONANT FREQUENCY 谐振频率 (F0)	<i>500Hz ± 20%</i>	<i>Without baffle 1V</i>
BUZZES & RATTLES 异常音	<i>Should not be audible buzz and rattle</i>	<i>At 2.83V sine wave between 20Hz to 20KHz</i>
DISTORTION 歪率	<i>5% MAX</i>	<i>RATED POWER INPUT 1000HZ</i>
FREQUENCY RANGE 实效频率范围	<i>F0 ~ 10KHz</i>	
MAGNET 磁铁	<i>Size: φ 12.5 x 2mm</i>	
PRODUCT WEIGHT 重量	<i>15g ± 10%</i>	

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RELIABILITY TEST

(实验要求)

TEST IN HIGH TEMP 耐温试验	After having been in a test chamber for 16hours at the condition of +60°C 20~25%R. H. and then left 2hours in a room. the SPL should not deviate by $\pm 3\text{dB}$, and resonant frequency should not deviate by $\pm 50\text{Hz}$, compare with pre-Test measurement.
TEST IN LOW TEMP 耐寒试验	. After having been in a test chamber for 96hours at the condition of $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and then left 2hours in a room. the SPL should not deviate by $\pm 3\text{dB}$, and resonant frequency should not deviate by $\pm 50\text{Hz}$, compare with pre-Test measurement.
HUMIDITY TEST 耐湿试验	After having been in a test chamber for 96hours at the condition of +40°C 90%~95%R. H. and then left 4hours in a room. the SPL should not deviate by $\pm 3\text{dB}$, and resonant frequency should not deviate by $\pm 50\text{Hz}$, compare with pre-Test measurement.
LOAD TEST 连续实验	Speaker should not fail apply 20~20K Hz white noise rated power input (RMS), 96 hours. after test, SPL shall not deviate by $\pm 3\text{dB}$ form pre-test measurement
DROP TEST 落下试验	Drop the samples with package naturally from the height of 75cm onto a wooden board 10 times, after test, SPL shall not deviate by $\pm 3\text{dB}$ form pre-test measurement
OPERATING TEMPERATURE 动作温度	$-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$

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<p>STORAGE TEMPERATURE 保存温度</p>	<p>-30°C ~ +65°C</p>
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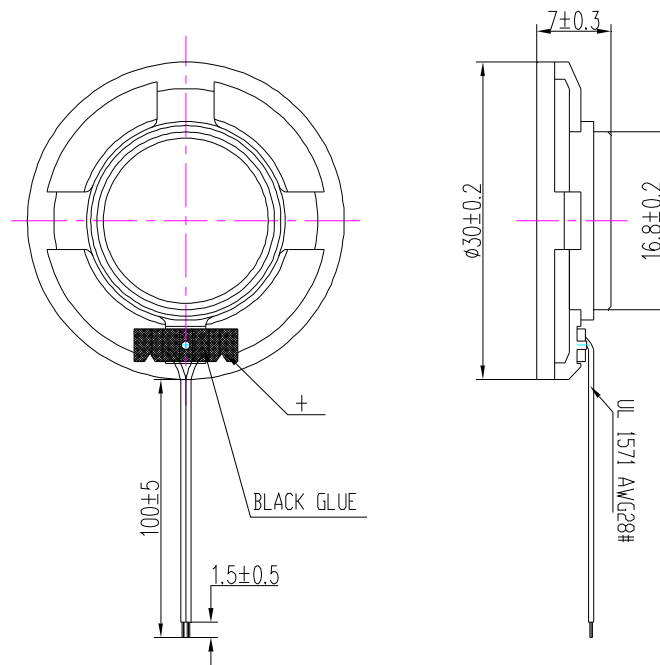
DIMENSION AND FREQUENCY RESPONSE

(尺寸和频率响应)

1. DIMENSION:

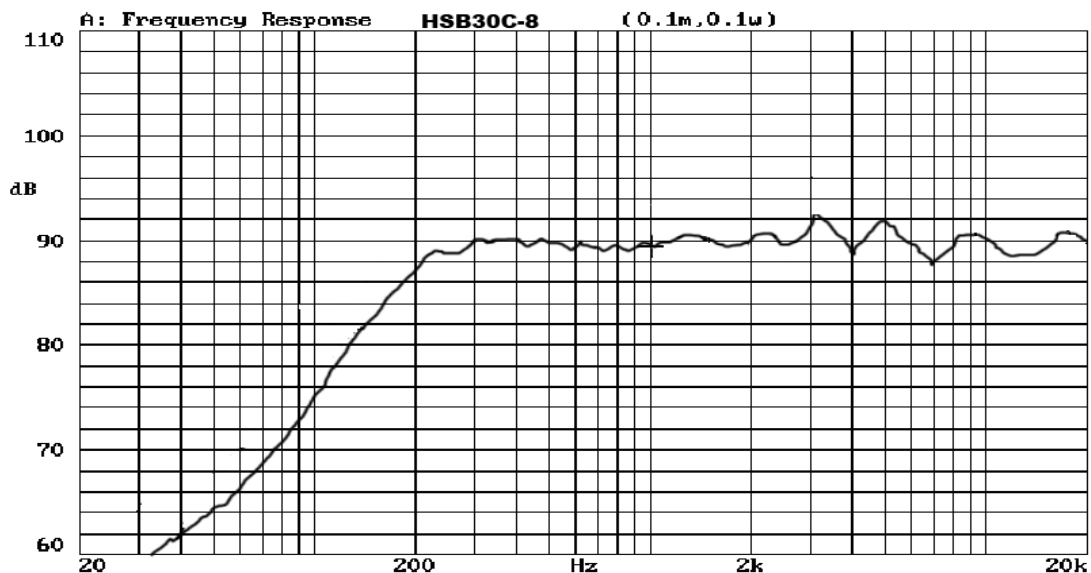
Unit: mm
单位

Tolerance : ±0.5mm
公差



2. FREQUENCY RESPONSE:

X:1.0000kHz *Y:89.32dB ZA:Live Curve SSR Fund.



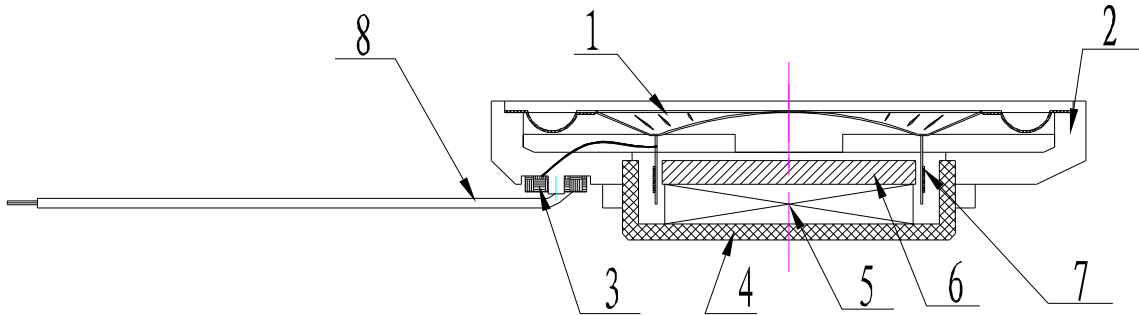
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CONSTRUCT

(结构)



NO 序号	Item Name 项目名称	Summary 概要
1	DIAPHRAGM	PU+PET
2	FRAME	BPT
3	TERMINAL	PCB
4	T-Yoke	Fe
5	MAGNET	Nd-Fe-B
6	Top plate	SPCC
7	VOICE COIL	KSV Lock Φ 0.06mm
8	WIRE	UL1571 AWG 28#

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TESTING CRITERION DRIVING LOOP

(测试线路驱动回路)

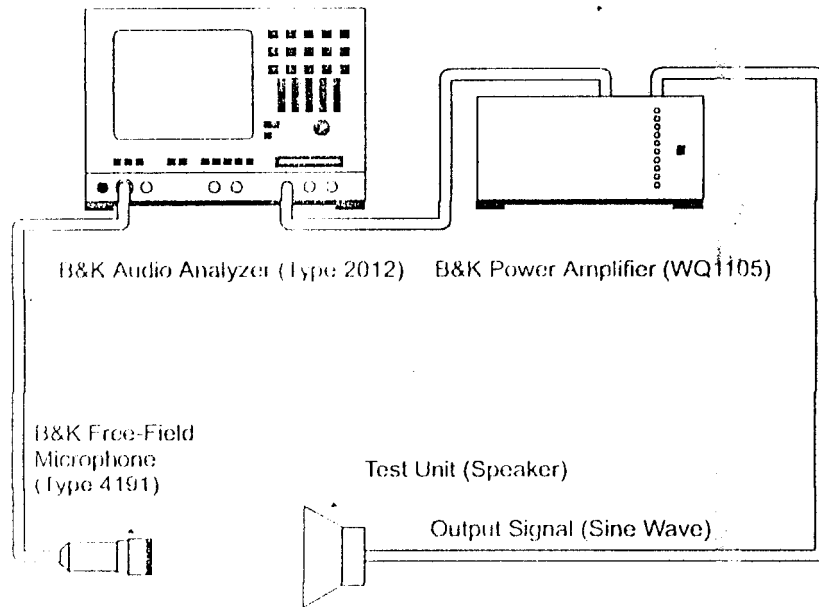


Figure 1.SPL Inspection Test Fixture
声压检测图

Notes: Apply rated signal from B & K audio analyzer (Type 2012) and B & K Amplifier (WQ1105). Measure SPL with microphone 10cm from the unit. Microphone to be in accordance with B & K free field microphone (Type 4191). The microphone should be calibrated on a daily basis using a calibrator recommended by the manufacturer.

Measurement should be carried out in a free Field environment.

注：使用 B & K2012 音频分析仪及 WQ1105 功放输出的额定信号,测试声压的传声器距扬声器 10cm.传声器为 B & K4191 自由场传声器.传声器须在使用前采用仪器供应商提供的校准仪进行校准.测试须在自由场环境下进行.