

IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

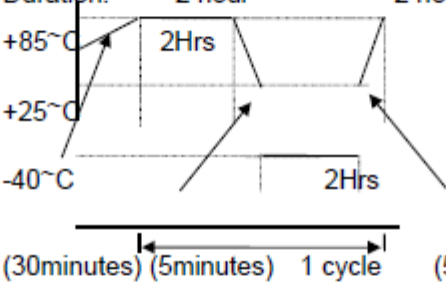
Specification :

ELECTRICAL AND ACOUSTICAL SPECIFICATION

| | Item | Specifications |
|------|---------------------------|---|
| 1-1 | Dimension | 9×16×3.0t |
| 1-2 | Rated Input Power | 0.7W |
| 1-3 | Max Input Power | 1.0W |
| 1-4 | Rated Impedance | 8±15% Ω /2.0KHz/2.37Vrms |
| 1-5 | Resonance Frequency(f0) | 850±20% Hz while testing in 1cc box at 2.37Vrms |
| 1-6 | Sound Pressure Level | 91 ±3 dB SPL /2.37Vrms/10cm at (AVG 0.8,1.0,1.5 2.0) KHz, in 1cc box |
| 1-7 | Frequency Range | f0HZ ~10KHz |
| 1-8 | Total Harmonic Distortion | 20%MAX. at 800~1000Hz, 2.37Vrms/10cm in 1cc box 15% MAX. at 1001~10KHz, 2.37Vrms/10cm in 1cc box As shown in fig(5) |
| 1-9 | Polarity | When a positive DC Current is applied to the voice coil terminal marked +or red ,the diaphragm shall move forward |
| 1-10 | Operation Test | Must be normal at sine wave and program source 0.7W. |
| 1-11 | Buzz, Rattle, etc. | Must be free audible noise (buzzes and rattles)(300Hz ~ 3.4KHz frequency range ,input level up to 2.37Vrms, while testing in 1cc box.) |
| 1-12 | Appearance | Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc. |
| 1-13 | Storage temperature | -40℃~+85℃ |
| 1-14 | Operation temperature | -20℃~+70℃ |
| | | |
| | | |
| | | |

IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

2. ENVIRONMENTAL TEST

| Item | Specifications |
|--|---|
| 2-1 High temp. Test | Temperature: +85°C ± 3°C Duration: 96 hours |
| 2-2 Low temp. Test | Temperature: -40°C ± 3°C Duration: 96 hours |
| 2-3 Humidity test | Temperature: +40 °C ± 3 °C Relative Humidity: 90%~95%RH Duration: 96 hours (recovery 6 hours) |
| 2-4 Thermal cycle test. | Temperature: -40°C ± 3°C ↔ +85°C ± 3°C Cycle: 12 cycles Duration: 2 hour 2 hour (recovery 2 hours)  (30minutes) (5minutes) 1 cycle (5minutes) |
| 2-5 Vibration | Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2H 2 hours in each 3axes |
| 2-6 Drop test | Height: 1.5m Cycle: 6 cycles (be mounted in a 100g fixture, drop samples 1.5m 2 drops on side(2*6), , 2 drops on each corner(2*4). Total 20 drops total 18 times |
| 2-7 Load test | Input power: 0.7W, Pink noise 96 hours in 1cc box.25°C. |
| 2-8 Waterproof grade | IPX-7 Test condition :Depth of water:1Meters ,Time of duration:30mins |
| 2-9 Air Leak Test Conditions | Air pressure 10KPa, Back side pressure 1.0Kg , Continuous time 7 seconds .Less than 1 SCCM |
| After these test , the change of S.P.L shall be within ±3 dB . | |

IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

3. MEASURING METHOD(SPEAKER MODE)

3-1 . Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-2. Standard Test Fixture

1. Input Power : 2.37V_{rms}

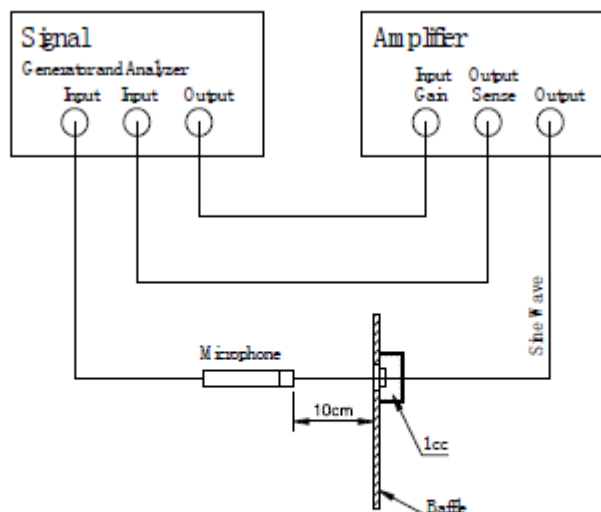
2. Zero Level : -dB

3. Mode : TSR

4. potention meter Range : 50dB

5. Sweep Time : 0.5sec

Speaker Measurement Circuit

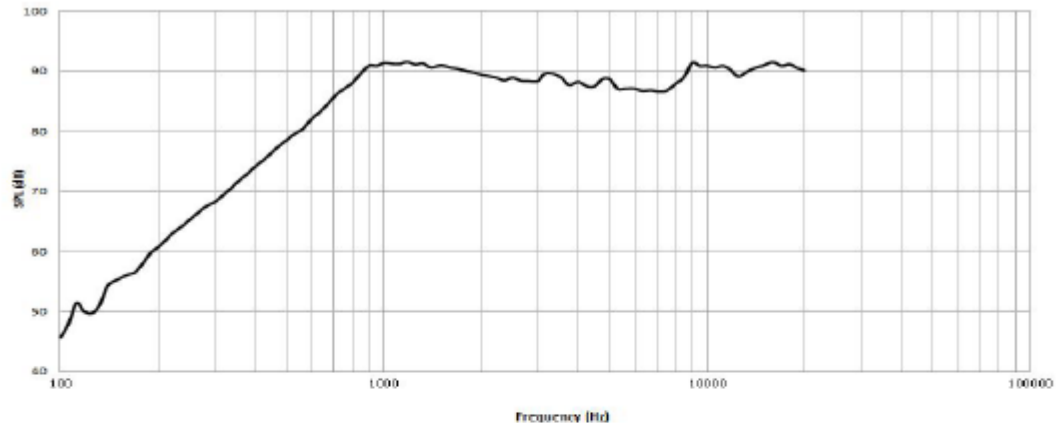


(fig.1)

IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

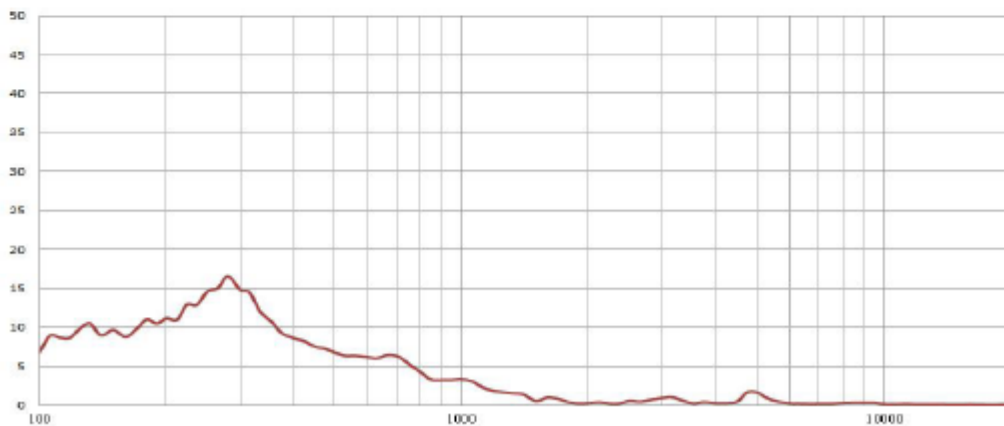
4. FREQUENCY RESPONSE CURVE(fig.2)

测试条件: 2.37Vrms/10cm



5. SPEAKER DISTORTION CURVE(fig.3)

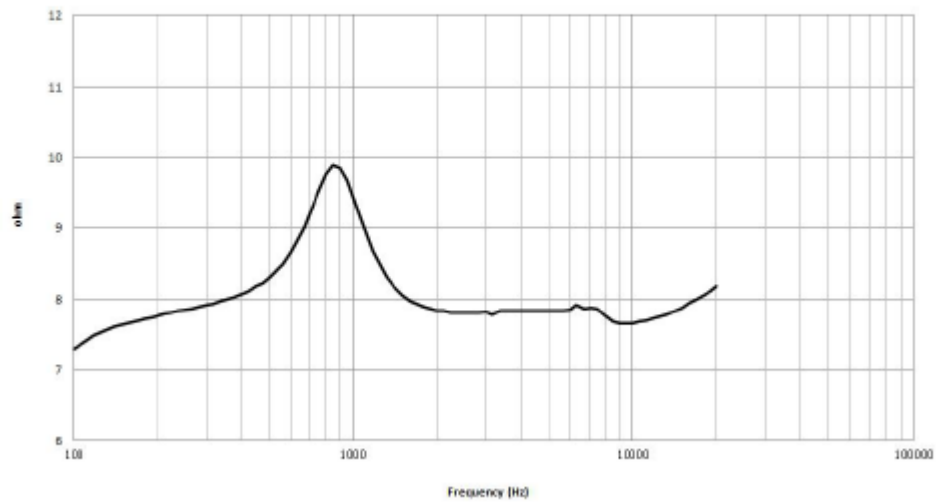
测试条件: 2.37Vrms/10cm



IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

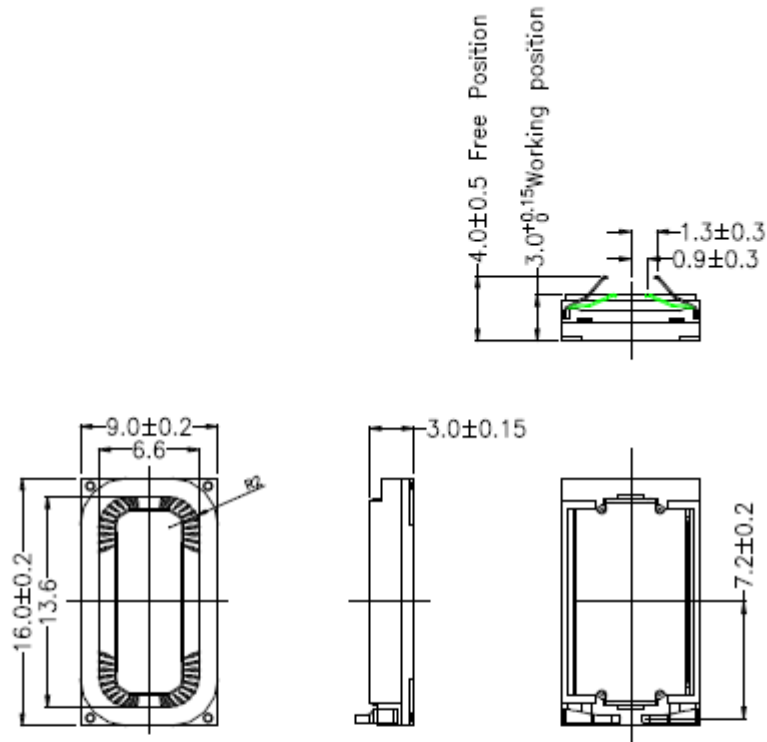
6. IMPEDANCE RESPONSE CURVE (fig.4)

测试条件: 2.37V_{rms}/10cm



IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

7.DIMENSIONS(fig.5)



Unless otherwise specified, tolerance: ± 0.2 (unit: mm)

| | | | | |
|----------|-----------------|------|-----------------------|--------|
| 8 | SPRING TERMINAL | 2 | SUS with gold-plating | GU-001 |
| 7 | Front Cover | 1 | PPA | GU-001 |
| 6 | Magnet | 3 | NdFeB | GU-001 |
| 5 | Plate | 3 | SPCC | GU-001 |
| 4 | Voice coil | 1 | COPPER WIRE | GU-001 |
| 3 | Diaphragm | 1 | PEEK | GU-001 |
| 2. | Yoke | 1 | SPCC | GU-001 |
| 1 | Frame | 1 | PPA | GU-001 |
| PART NO. | PART NAME | Q'TY | MATERIAL | REMARK |

IPX7 Lautsprecher LSF-1609B-IPX7 Art.-Nr.: 106127

8.PACKING(fig.6)

