



Dynamic Loudspeaker

ϕ 40×21.7 mm

With wire & connector

CC40C217XN4G

Revision

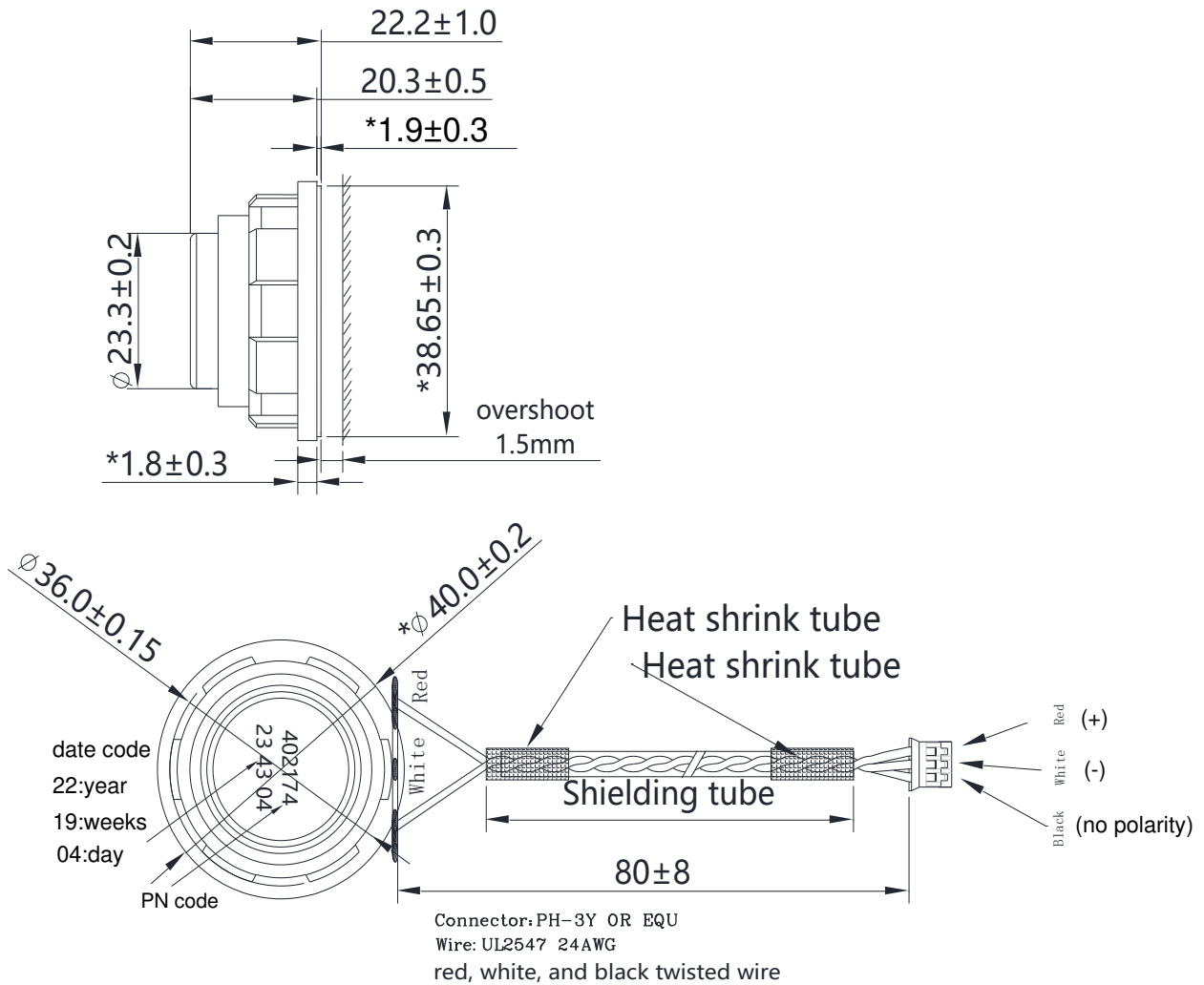
| Date | Version | Status | Changes | Approver |
|------------|---------|--------|---------------------------|----------|
| 2023/11/3 | V0.1 | Draft | First release | AX |
| 2023/11/14 | V0.2 | Draft | Update wire length | AX |
| 2024/4/8 | V0.3 | Draft | Update F0 & out line size | AX |

| Parameter | Conditions/Description | Values | Units |
|-------------------------------|---|-----------|-------|
| Rated Input Power | | 5.0 | W |
| Max Input Power | IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp | 5.5 | W |
| Rated Impedance | at 2.0 kHz | 4±15% | Ω |
| Sound Pressure Level (S.P.L.) | at 0.8K 1.0K 1.2K 1.5KHz in 1.0W/0.5M average (0dB SPL=20μPa) | 83±3 | dB |
| Resonant Frequency (Fo) | at 1.0 V | 180±20% | Hz |
| Frequency Range | Output S.P.L. -10dB | Fo~20K | Hz |
| Distortion | at 1K Hz, input 1.0W, | < 10% | - |
| Magnet | NdFeB | Φ15.7*4.0 | mm |
| Buzz, Rattle, etc. | must be normal at sine wave between Fo ~ 5K Hz | 4.47 | V |
| Polarity | cone will move forward with positive dc current to "+" terminal | | |
| Weight | | | g |
| Operating Temperature | | -20~+60 | °C |
| Storage Temperature | | -30~+70 | °C |

Notes: All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: $\pm 0.5\text{mm}$ 

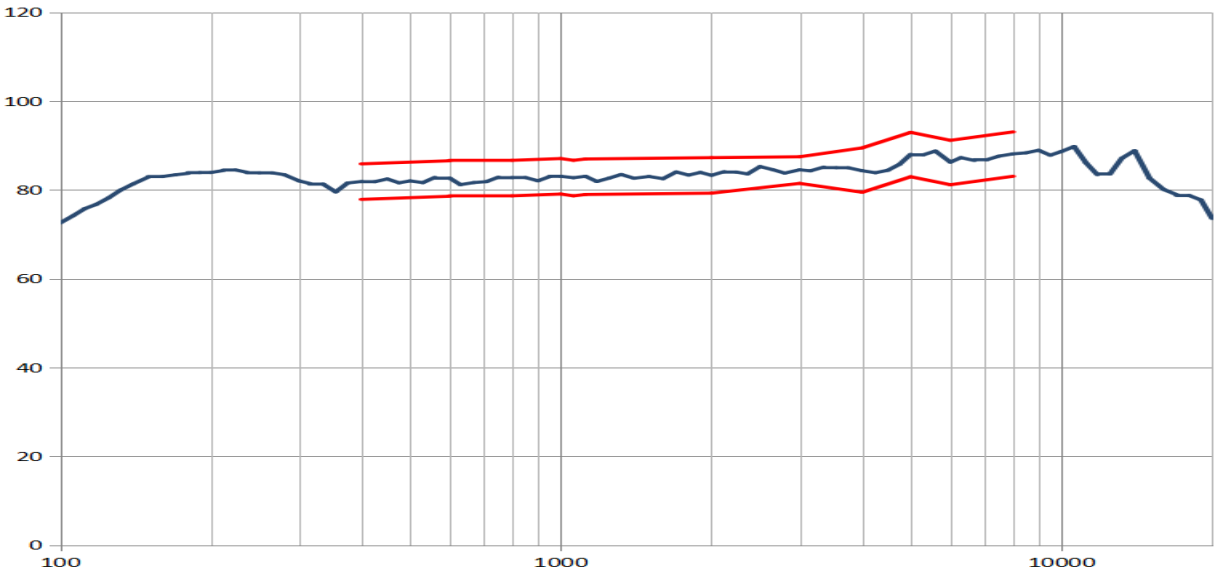
CONSTRUCTION DETAIL

| PART NO. | PART NAME | Q'TY | MATERIAL | REMARK |
|----------|--------------|------|-----------------------|--------|
| 1 | Gasket | 1 | ABS | |
| 2 | Diaphragm | 1 | RUBBER+PET | |
| 3 | VOICE COIL | 1 | Paper Cu | |
| 4 | Plate | 1 | SPCC | |
| 5 | Magnet | 1 | NdFeB | |
| 6 | PCB Terminal | 1 | FR4 | |
| 7 | Frame | 1 | ABS | |
| 8 | TERMINAL | 1 | HY-3Y UL2547 24AWG | |

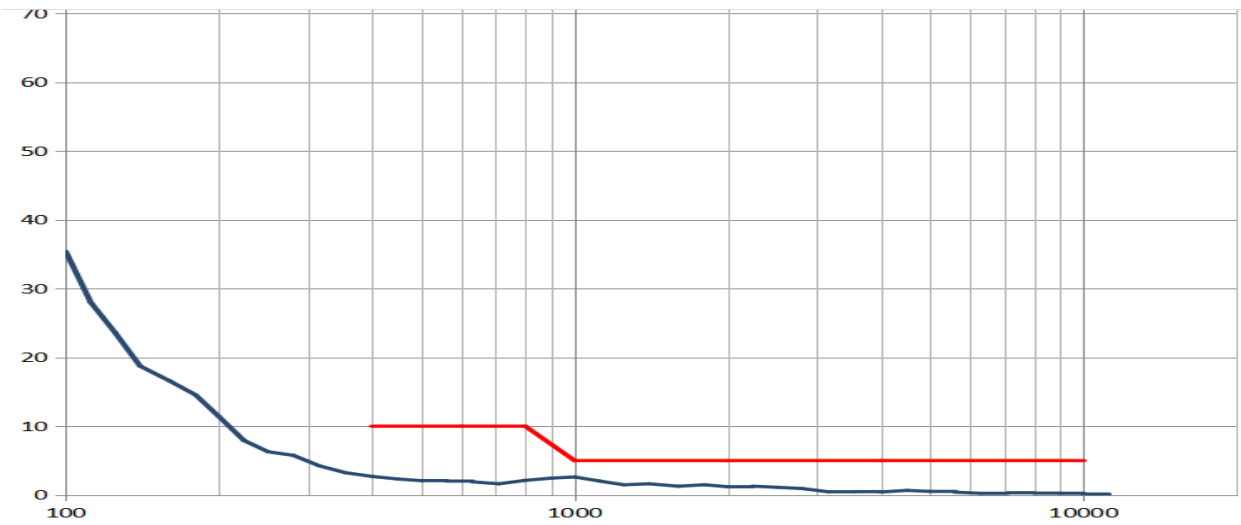
RESPONSE CURVES

Frequency Response Curve

Test condition: 1.0W/0.5M,



| 频点 | 8000 | 6000 | 5000 | 4000 | 3000 | 2000 | 1120 | 1060 | 1000 | 800 | 600 | 400 |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| UP | 93.1 | 91.2 | 93 | 89.5 | 87.5 | 87.3 | 87 | 86.7 | 87.1 | 86.7 | 86.6 | 85.9 |
| LOW | 83.1 | 81.2 | 83 | 79.5 | 81.5 | 79.3 | 79 | 78.7 | 79.1 | 78.7 | 78.6 | 77.9 |



| THD框线 | 400 | 600 | 800 | 1000 | 2000 | 4000 | 10000 |
|-------|-----|-----|-----|------|------|------|-------|
| UP | 10 | 10 | 10 | 5 | 5 | 5 | 5 |
| LOW | | | | | | | |

RELIABILITY TEST

| | | |
|---|------------------------------|--|
| 1 | Reliability Test Performance | After any following test, parts should conform to original performance within ± 3 dB tested with Rated Power, after 6 hours of recovery period. |
| 2 | High Temperature Test | 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ |
| 3 | Low Temperature Test | 96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ |
| 4 | Humidity Test | 96 hours at $+30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 92-95% RH |
| 5 | Temp./Humidity Cycle | <p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of</p> <p style="text-align: center;">90 ~ 95 % RH</p> <p style="text-align: center;">65°C</p> <p style="text-align: center;">25°C</p> <p style="text-align: center;">0.5hr 6hrs 0.5hr 5hrs</p> |
| 6 | Vibration Test | <p>Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm</p> <p>Duration: 2 hours each of 3 perpendicular directions</p> |
| 7 | Drop Test | Drop the speaker contained in normal box onto the surface of 40mm thick board 10 times from the height of 75cm |
| 8 | Operation Life Test | Must perform normal with program White-Noise source at Rated Power for 96 Hours |
| 9 | Termination Strength | <p>Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds;</p> <p>Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;</p> |

MEASURING METHOD

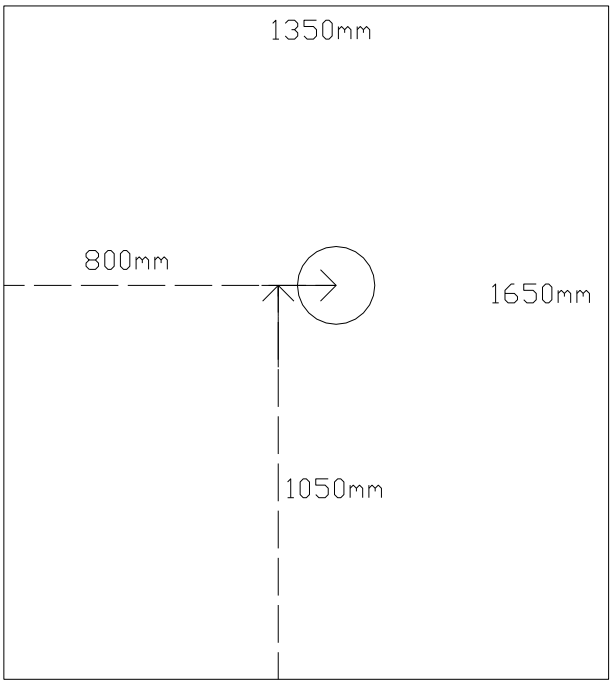
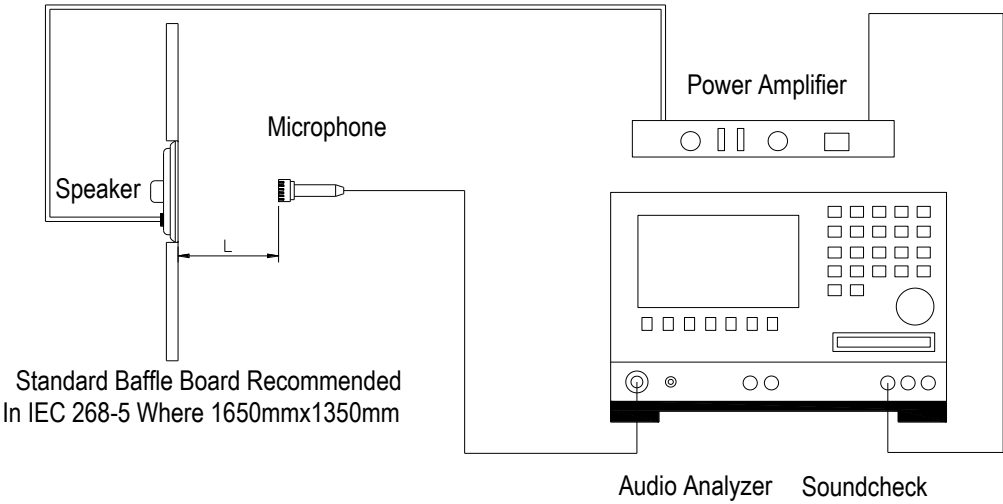


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker



L=50cm

Fig. 2 Speaker Test Condition

PACKAGING

units: cm

Remark:

25 pcs per tray

8 units per carton

Total:200 pcs per box

Size:33.0*31.5*32cm

