

General Description

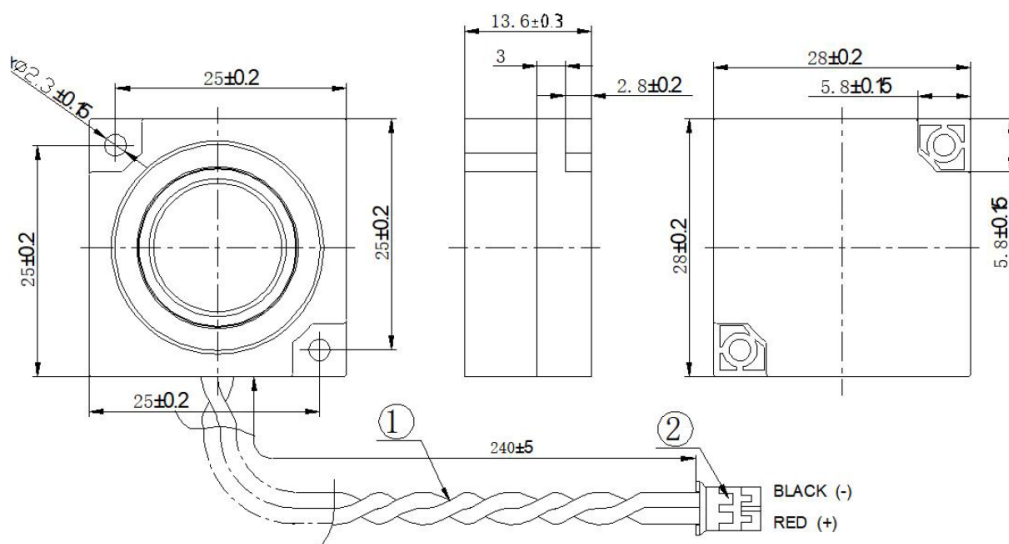
28 x 28mm Chambered Speaker



ELECTRICAL SPECIFICATIONS

| Parameters | | Value | Unit |
|-----------------------------|---|-----------|------|
| Lowest Resonance Frequency | | 700±20% | Hz |
| Impedance | @ 1.0kHz | 4±20% | Ω |
| Rated Input Power | | 2.0 | W |
| Input Power, max | | 2.5 | W |
| Dimension | | 28 x 28 | mm |
| Height | | 13.6 | mm |
| Sound Pressure Level | @ SPL (0.5m,1.0W) at 0.8,1.0,1.2,1.5kHz (0dB SPL=20μPa) | 83±3 | dB |
| Distortion, max | @ 0.1W /0.1m ,3 kHz | 5 | % |
| Operating Temperature Range | | -20 ~ +50 | °C |
| Storage Temperature Range | | -30 ~ +60 | °C |
| Audible Noise | The input power shall be set at rated noise power(2.83V). Using an audio oscillator sweep from F0 to 20kHz in free air. There shall be no buzzes,rattles,nor spurious noises. | | |

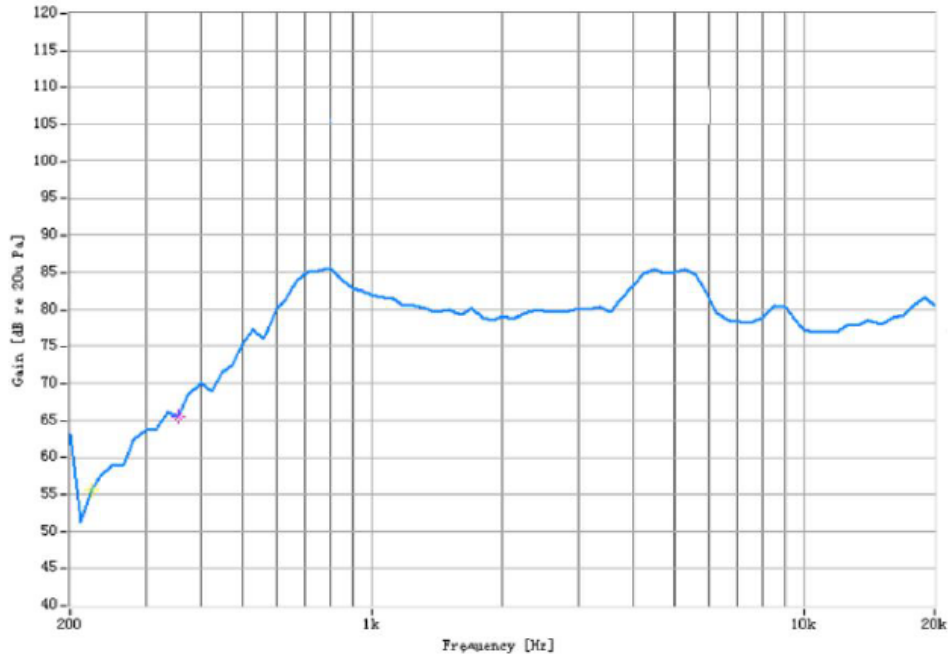
Dimensions



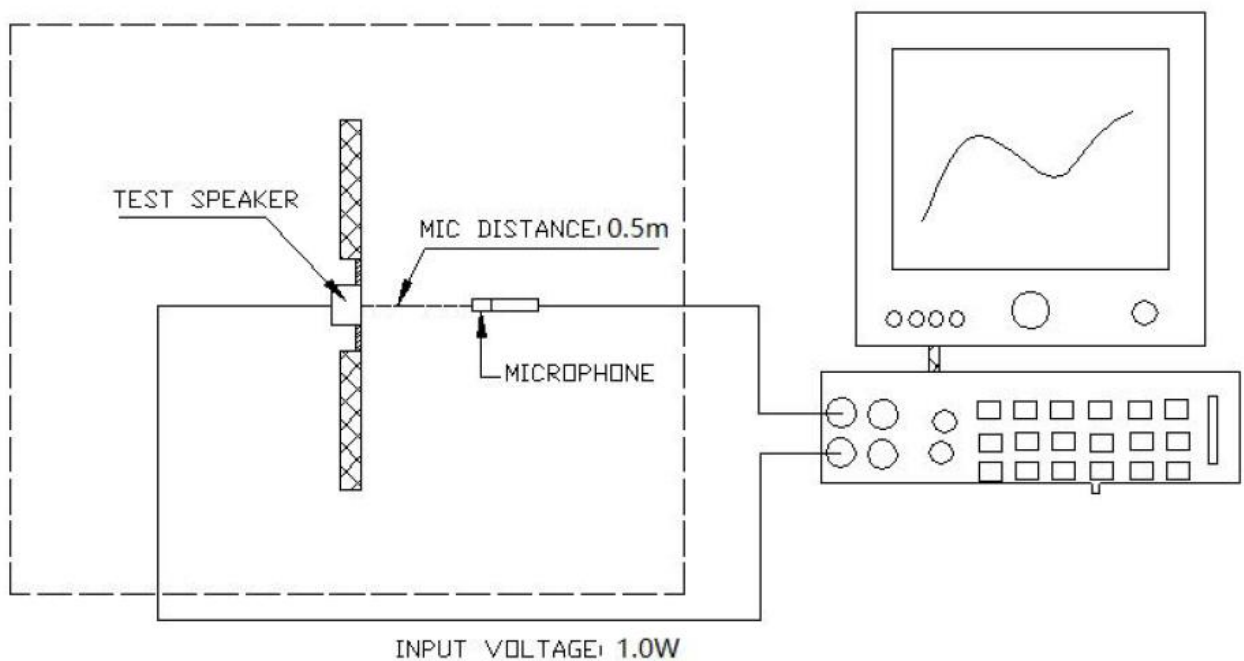
| | | |
|-----|---|------|
| 2 | HOUSING:JST PHR-2 PITCH 2.0 OR COMPATEBLE | 1PCS |
| 1 | WIRE:UL 1571 #24AWG | 1PCS |
| NO. | Description | Q'TY |

Unit: mm; Tolerance: ±0.3mm Except Specified

Frequency Characteristics



Speaker Measurement Circuit



Reliability Test

Reliability Test Performance

High Temperature Test

96 hours at +60°C±5°C

Low Temperature Test

96 hours at -30°C±5°C

Humidity Test

96 hours at +40°C±5°C, 90-96% RH

Vibration Test

Vibration: 10Hz ~ 55Hz

Amplitude: 0.35mm or acceleration : 50m/s²

Duration : 2h per axis=10cycles ; 3 axis

Temperature Cycle Test

Temperature: -30°C +60°C

Duration : 2 hours 2 hours

Cycle: 5Cycle

Drop Test Drop

Height: 1.0m (75°)

Cycle: 6 Cycles

Load Test

Noise: White noise

Power: 2.0W

Duration: 96 hours and satisfy the test listed on item 05,08,14.

APPROVAL

| | |
|-------------|----------------------|
| DRAWN BY | AR, January 06, 2025 |
| APPROVED BY | CP, January 06, 2025 |
| REVISION | A, Initial Release |



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