Speaker

RSP-1600.000-1303-ZF-NS1

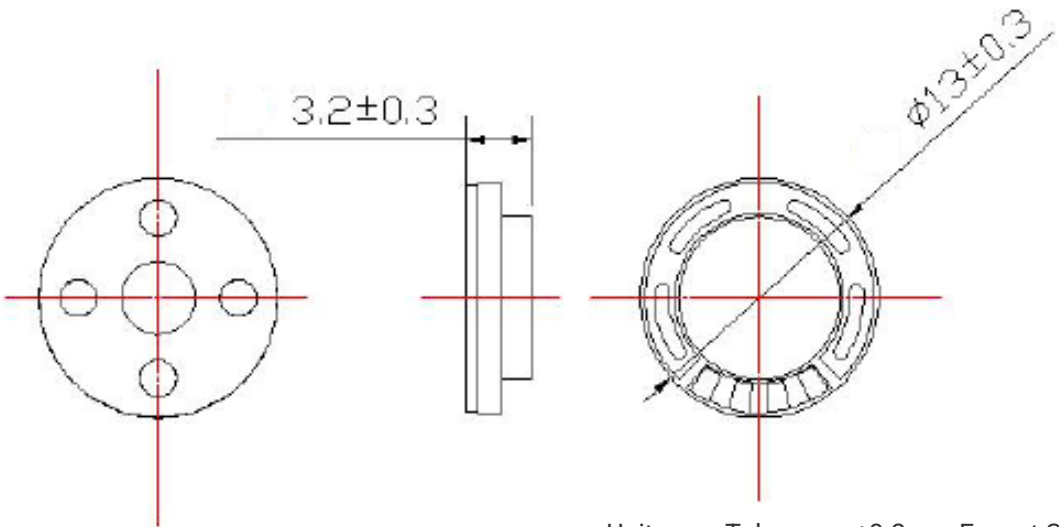
General Description

Φ13 x 3.2mm Speaker

ELECTRICAL SPECIFICATIONS

Parameters		Value	Unit
Lowest Resonance Frequency		1600 ±20%	Hz
Impedance	@ 1.0kHz	8±20%	Ω
Rated Input Power		0.5	W
Input Power, max		1	W
Dimension		Φ13	mm
Height		3.2	mm
Sound Pressure Level	@ SPL(0.1m,0.5W) @ 1.0,1.2,1.5, 2.0kHz (0dB SPL=20μPa)	91±3	dB
Distortion, max	@ 2.0kHz	10	%
Operating Temperature Range		-20 ~ +50	˚C
Storage Temperature Range		-30 ~ +60	˚C
Audible Noise	The input power shall be set at rated noise power(0.5W). Using an audio oscillator sweep from F0 to 10kHZ in free air. There shall be no buzzes, rattles, nor spurious noises.		

DIMENSIONS



Unit: mm; Tolerance: ±0.3mm Except Specified

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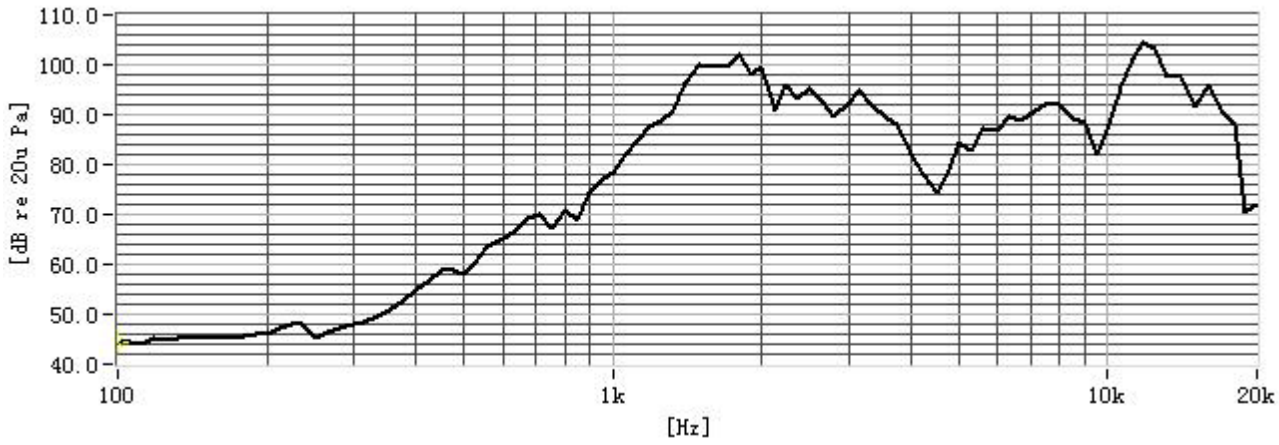
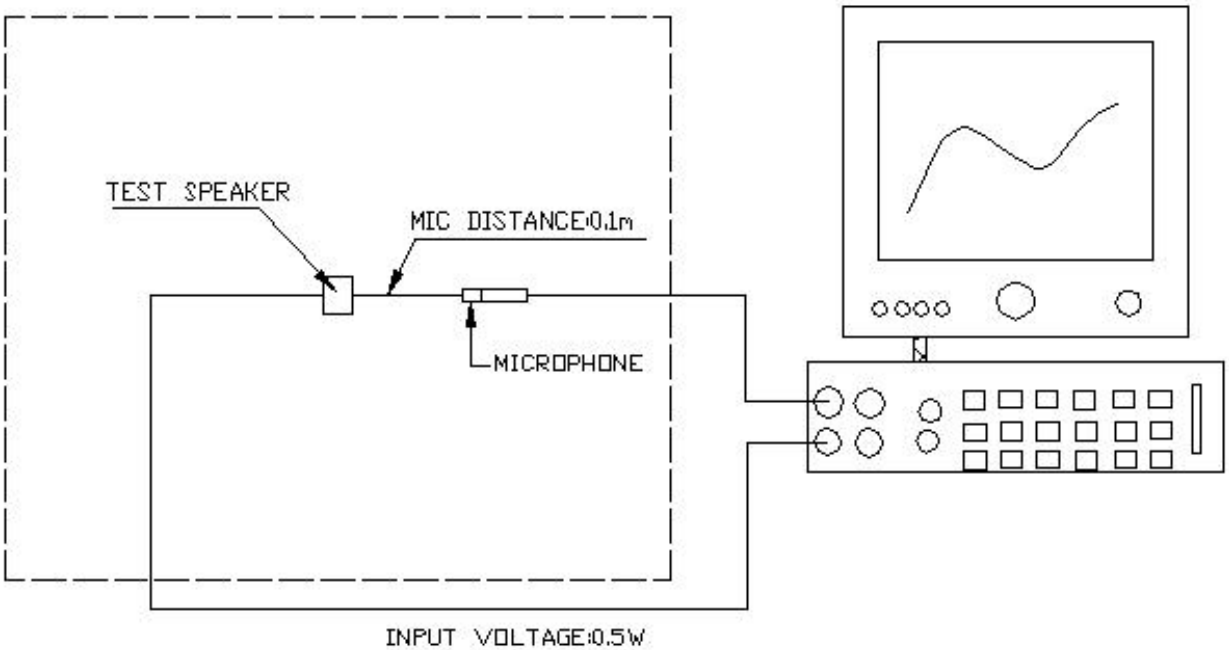
FREQUENCY CHARACTERISTICS



ELECTRICAL AND ACOUSTICAL MEASURING CONDITION



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RELIABLITY TEST

Reliability Test Performance

High Temperature Test
96hours at +60℃±5℃

Low Temperature Test
96 hours at -30℃±5℃

Humidity Test
96hours at +40℃±5℃, 90-95% RH

Vibration Test
Vibration: 10Hz ~ 55Hz
Amplitude: 1.5mm or acceleration : 50m/s2
Duration : 2h per axis=10cycles ; 3 axis

Temperature Cycle Test
Temperature: -30℃◄► +60℃
Duration : 2 hours 2hours
Cycle: 5 Cycle

Drop Test Drop
Height: 1.0m (75°)
Cycle: 6 Cycles

Load Test
Noise: White noise
Power: 0.5W
Duration: 96 hours and satisfy

Waterproof Grade
IP67

APPROVAL

DRAWN BY	AR, April 23, 2025
APPROVED BY	CP, April 23, 2025
REVISION	A, Initial Release