

General Description

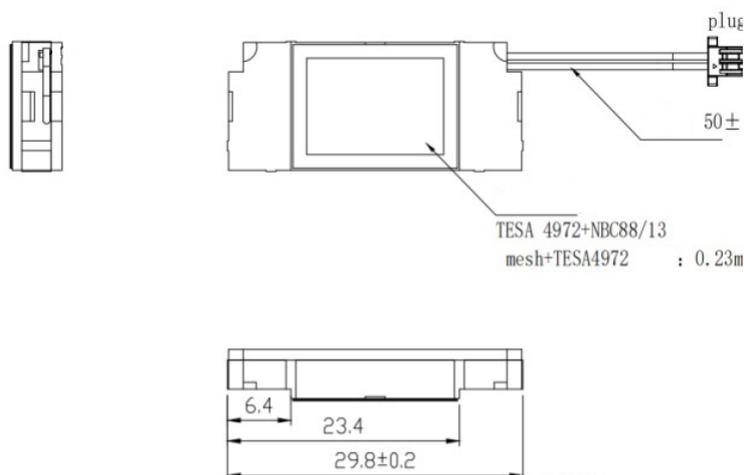
15 x 11mm Chambered Speaker



ELECTRICAL SPECIFICATIONS

Parameters		Value	Unit
Response Frequency	@ 1V (Without Baffler)	1150±20%	Hz
Impedance	@ 2kHz 1.0V without baffler	8±15%	Ω
Nominal Input Power		1.0	W
Input Power, max		1.2	W
DC Resistance		7.4 ± 10%	Ω
Relative Humidity		60 ~ 70	%
Sound Pressure Level	@ SPL @2.0kHz Measuring condition: 1.0W (Sine wave) 10cm measured with baffler	88±3	dB
Distortion, max	@ 2kHz,0.1M,1.0W (frequency range ,input level up to 2.83Vrms)	10	%
Operating Temperature Range		-20 ~ +85	°C
Storage Temperature Range		-30 ~ +70	°C
Audible Noise	Must be free audible noise (buzzes and rattles)(960~ 5kHz frequency range ,input level up to 2.83Vrms).		

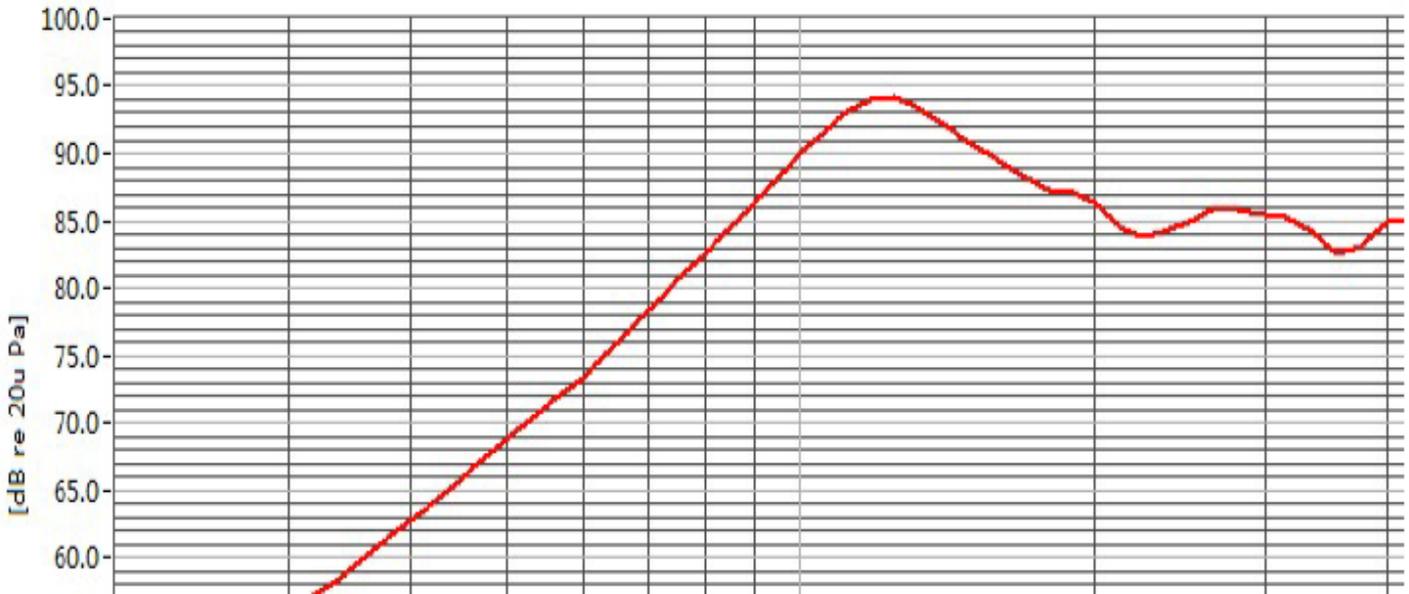
Dimensions



6	TESA4972+NBC88/13 mesh+TESA4972 (H0.23mm)	
5	ABS777	BOX
4	1002-2PIN (UL3302-30#)	
3	1511-3.5 (1w. in lcc closed box)	SPK
2	/	
1	ABS777	BOX

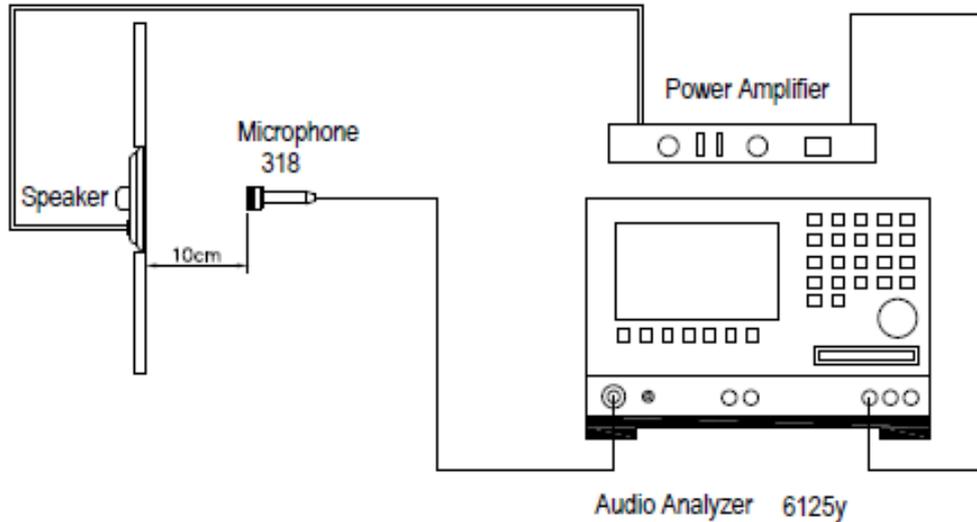
Unit: mm; Tolerance: ±0.3mm Except Specified

Frequency Characteristics



Speaker Measurement Circuit

Standard test condition of speaker



Reliability Test

Reliability Test Performance

High Temperature Test

48hours at +85°C±2°C

Low Temperature Test

48 hours at -40°C±2°C

Humidity Test

48hours at +40°C±2°C, 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: -25°C +60°C

Duration : 45min 45min

Temperature gradient: 1~3°C/min

Cycle: 4 Cycle

Drop Test Drop

Height: 1.5m

Cycle: 6 Cycles

Heat Shock Test :

High temperature: $+70\pm 2^{\circ}\text{C}$

Low temperature: $-40\pm 2^{\circ}\text{C}$

Changeover time: <30 seconds

Duration: 1 hours

Cycle: 100

APPROVAL

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



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