

### General Description

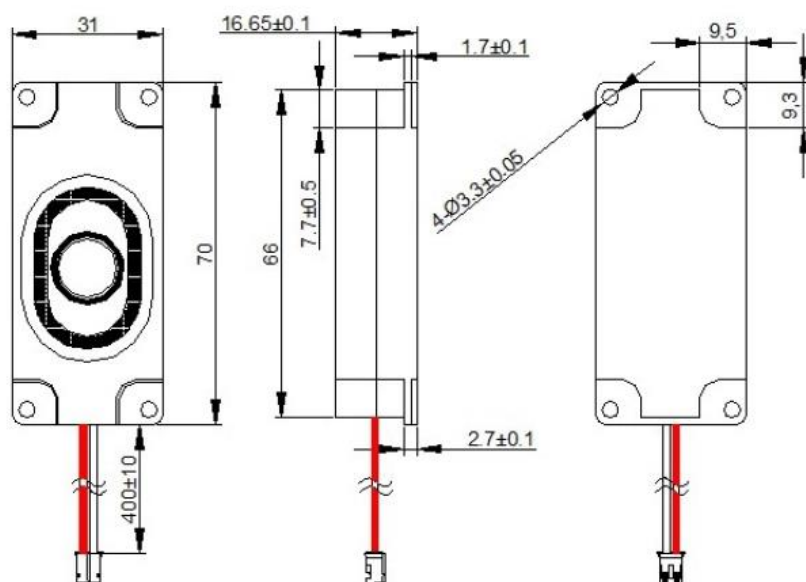
70 x 31mm Chambered Speaker



### ELECTRICAL SPECIFICATIONS

Parameters		Value	Unit
Frequency Range		F0 ~ 20000	Hz
Lowest Resonance Frequency		600±15%	Hz
Nominal Impedance	@ 1kHz	8±15%	Ω
Rated Input Power		2.0	W
Input Power, max		3.0	W
Magnet		12.5 x 1.5	mm
Voice Coil		13.28×0.08×8	mm
Sound Pressure Level	@ 2W/0.1M @ 0.8,1.0,1.2,1.5kHz AVG.	116±3	dB
Distortion, max	@ 4V Rated Input @ 1.0kHz/Nom Power	5	%
Buzzes&Rattles		4	V
Net Weight		9.85	g
Operating Temperature Range		-20 ~ +50	°C
Storage Temperature Range		-25 ~ +60	°C
Polarity	Diaphragm Shall Move Forward When . Applies A Positive DC. Current To The "+" Or Marked On Terminal		

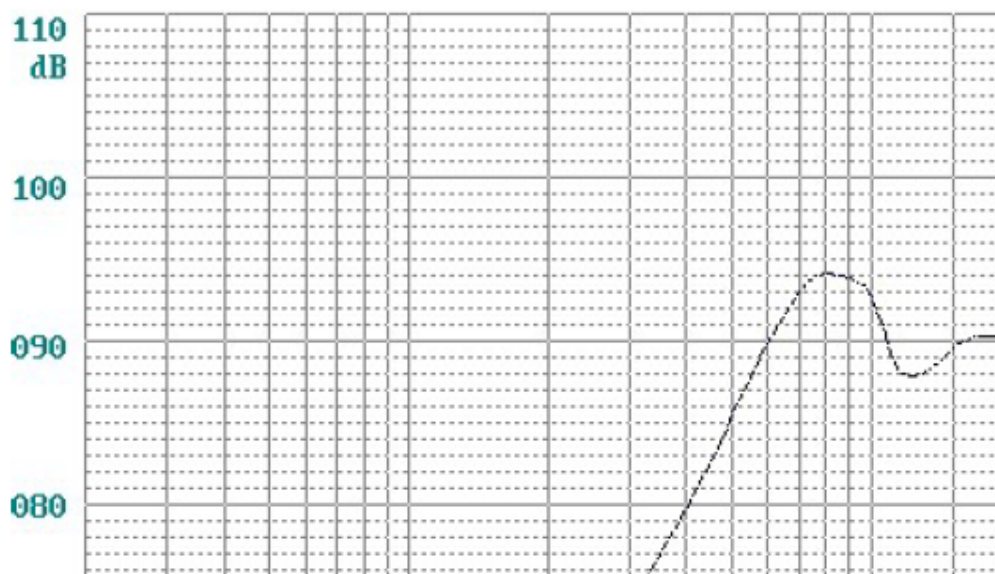
### Dimensions



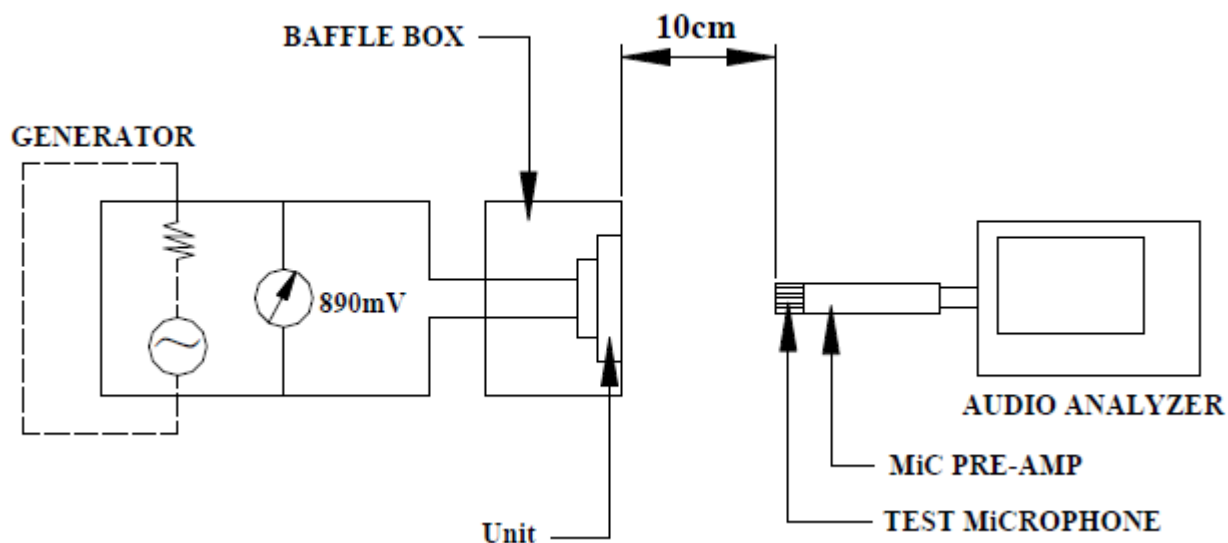
PARTNAME	MATERIAL
Frame	SPCC
Magnet	Nd-Fe-B
Washer	SPCC
Terminal	FR-4
Voice Coil	Cu
Diaphragm	PAPER
Gasket	ABS
Wire	UL1007# 8

Unit: mm  
Tolerance: ±0.2mm

### Frequency Characteristics



### Speaker Measurement Circuit



### Reliability Test

ITEM	METHOD OF TEST	STANDARD
Dry Heat Test	After being placed in a chamber with $+55 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	All specification must be satisfied after the test.
Cold Test	After being placed in a chamber with $-25 \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured.	All specification must be satisfied after the test.
Humidity Test	After being placed in a chamber with, 95%R.H. at $+40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured. (Attached FIG.1)	All specification must be satisfied after the test.
Temperature Cycle Test	After being placed in a chamber at $-25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 30 minutes, sounder shall be placed at room temperature( $+20^{\circ}\text{C}$ ). After 15 minutes at this temperature, sounder shall be placed in a chamber at $+55^{\circ}\text{C} \pm 5^{\circ}\text{C}$ . After 30 minutes at this temperature, sounder shall be returned to room temperature( $+20^{\circ}\text{C}$ ) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 2 hours. (Attached FIG.2)	All specification must be satisfied after the test
Vibration Test	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency . Make this test for directions of X,Y,Z for 2Hrs each (Total 6Hrs)Sweep time is 1 minute. (Attached FIG.3)	All specification must be satisfied after the test.
Drop Test	The speaker inside the packing must be OK after test. Direction of drop: 1 corner, 3 edges and 6 faces. Height: 1 meter.	All specification must be satisfied after the test.
Load Test	Noise: White noise(EIA filter) Power: 2W Duration: 24hours	All specification must be satisfied after the test.

#### APPROVAL

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



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