Dynamic Loudspeaker

Ø34.5×10.7mm

CC35L12YN50

Revision

Date	Version	Status	Changes	Approver
2019/05/30	V0.1	Draft	First release	AX
2020/05/20	V0.2	Draft	Update outsize and package info	AX
2020/07/27	V0.3	Draft	Update outline size	AX

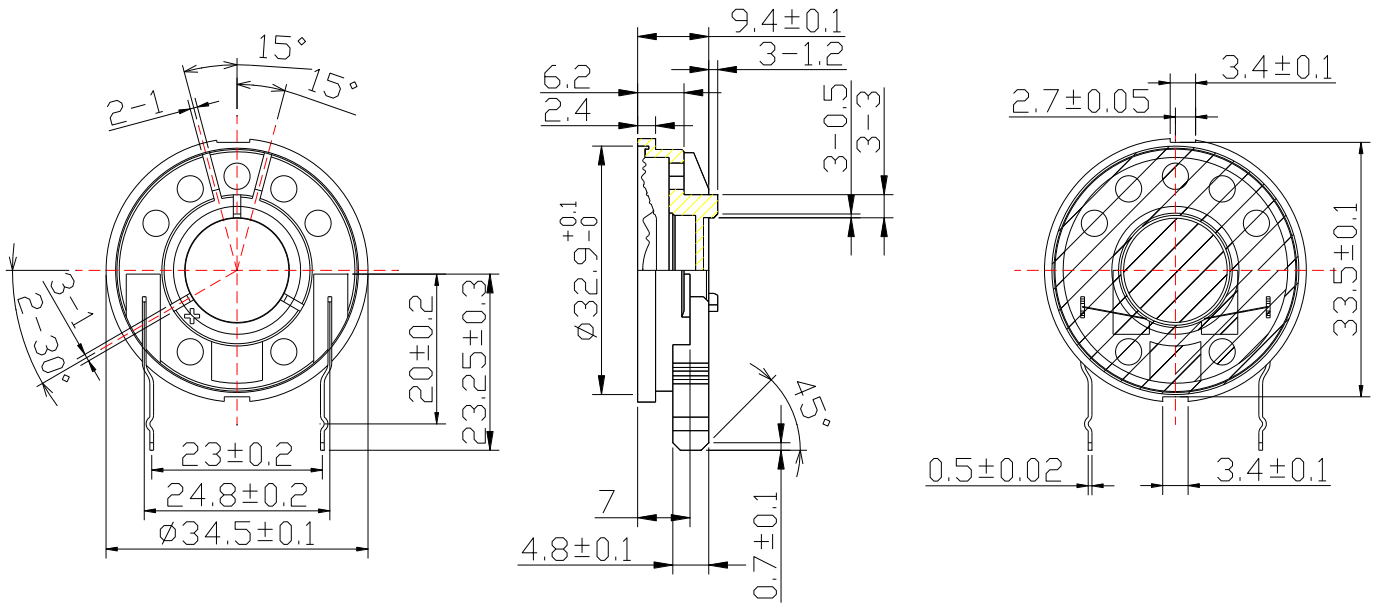
Parameter	Conditions/Description	Values	Units
Rated Input Power		0.5	W
Max Input Power		1.0	W
Rated Impedance	at 2.0 kHz	50±15%	Ω
Sound Pressure Level	at 0.8K 1.0K 1.2K 1.5KHz in 0.5W/0.5M	86±3	dB
Resonant Frequency	at 1.0 V	500±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~10K	Hz
Distortion	at 1K Hz, input 0.5W,	< 5%	-
Magnet	NdFeB	Φ12.5*1.8	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	5.0	V
Polarity	cone will move forward with positive dc current to “+” terminal		
Weight		12	g
Operating		-20~+70	℃
Storage Temperature		-30~+70	℃
Waterproof		N/A	

Notes: All specifications measured at 15~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: ±0.5mm



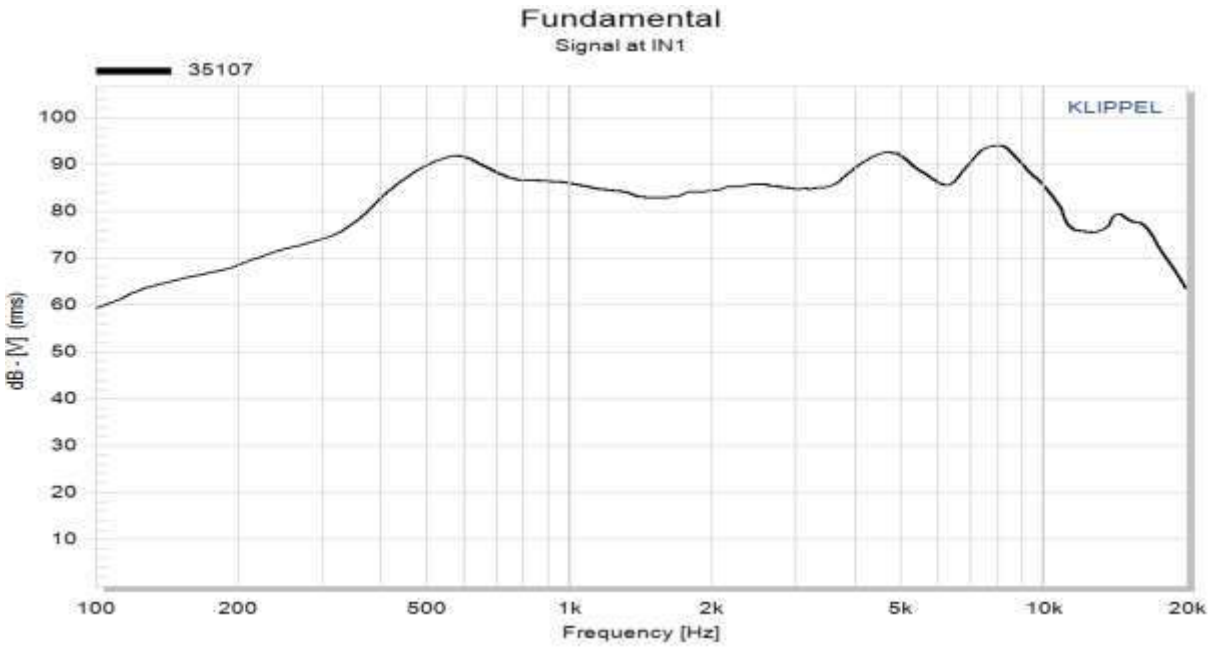
CONSTRUCTION DETAIL

PART NO.	PART NAME	Q' TY	MATERIAL	REMARK
1	Diaphragm	1	PEI	
2	VOICE COIL	1	Paper Cu	
3	Plate	1	SPCC	
4	Magnet	1	NdFeB	
5	PCB Terminal	1	FR4	
6	Frame	1	PBT	

RESPONSE CURVES

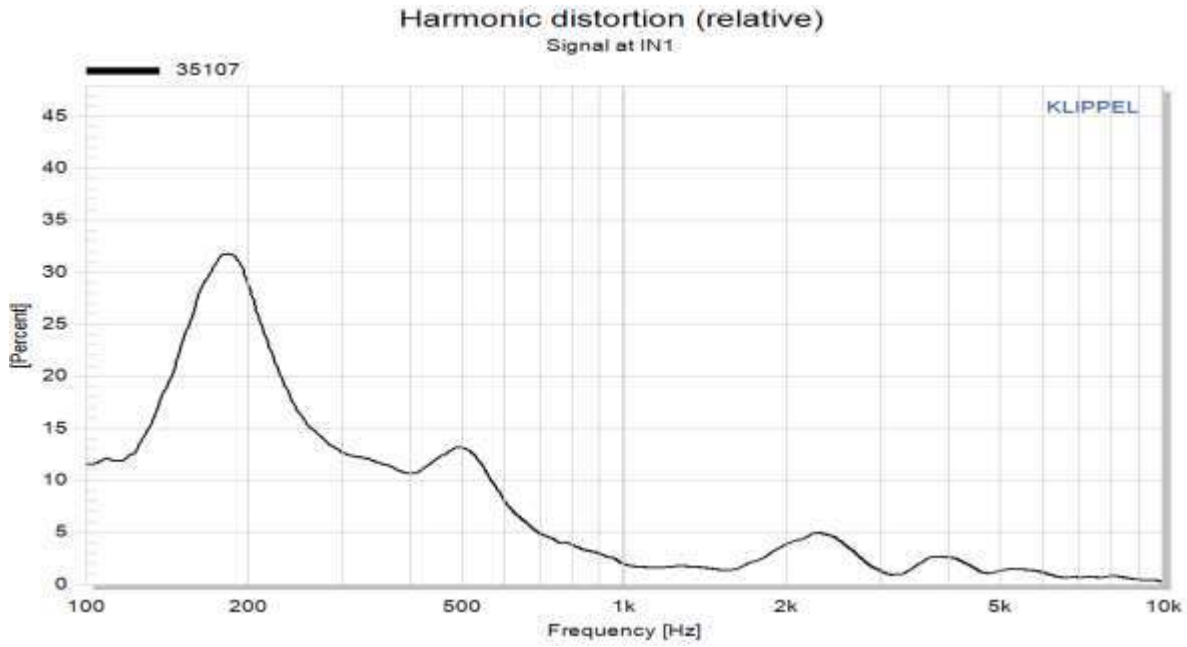
Frequency Response Curve

Test condition: 0.5W/0.5M,

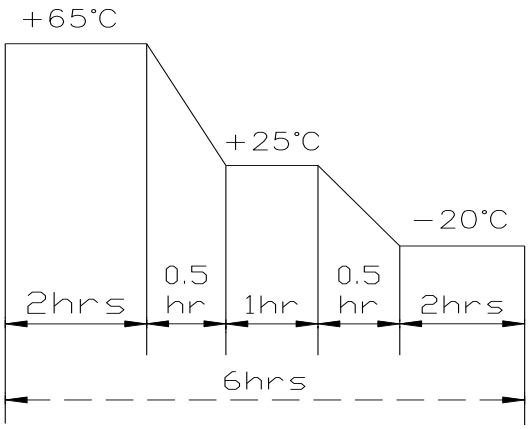


Total Harmonic Distortion Curve

Test condition: 0.5W/0.5M,



RELIABLITY 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 Maximum Rated Operating Temperature
3	Low Temperature Test	96 hours at Minimum Rated Operating Temperature
4	Humidity Test	96 hours at +30℃±3℃, 92-95% RH
5	Temp./Humidity Cycle	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of 
6	Vibration Test	Frequency: 10~55~10Hz Oct/min Amplitude: 1.5mm Duration: 2 hours each of 3 perpendicular directions
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	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds;

MEASURING METHOD

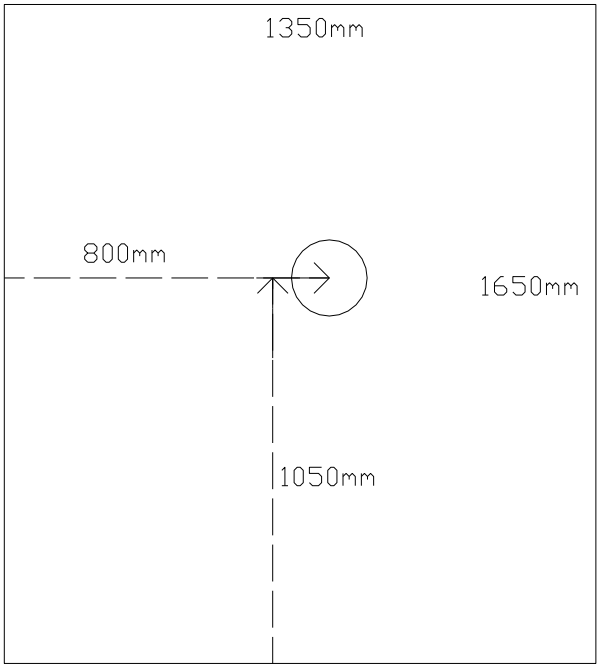
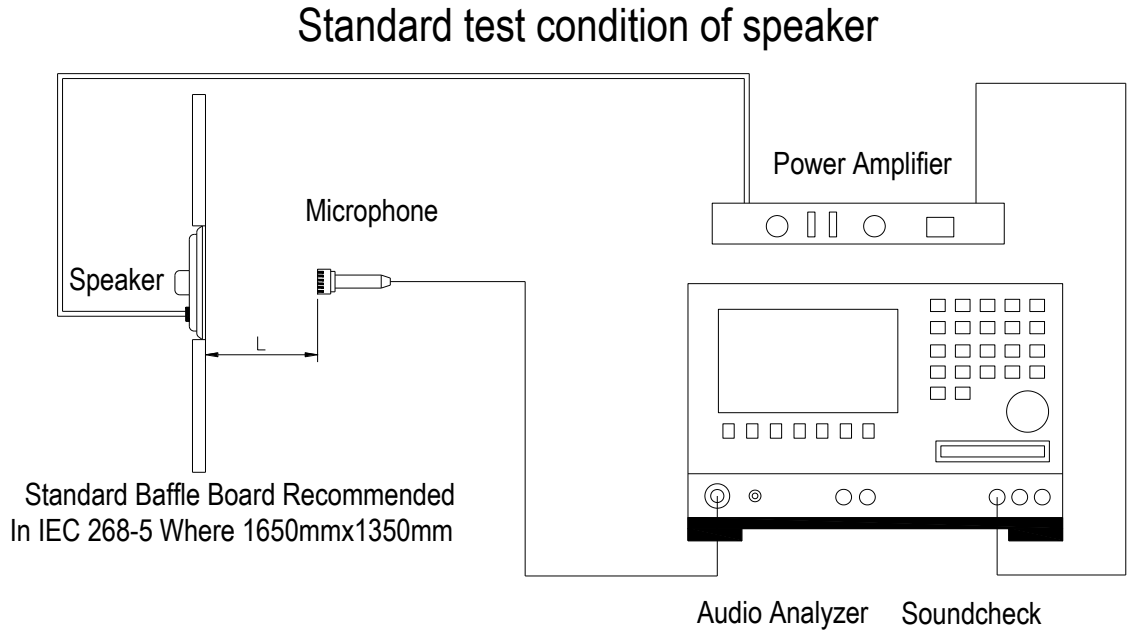


Fig. 1 Block Diagram for Measurement Method



L=50cm

Fig. 2 Speaker Test Condition

PACKAGING

units: cm

Remark:

25pcs per tray

6 trays for unit，2 units per carton

Total:800 pcs per box

Size:51.5*34.5*31cm