Dynamic Loudspeaker

15×11×3.5 mm

With gasket

CR1511L035UN6GDA

Revision

Date	Version	Status	Changes	Approver
2021/07/07	V0.1	Draft	First release	AX

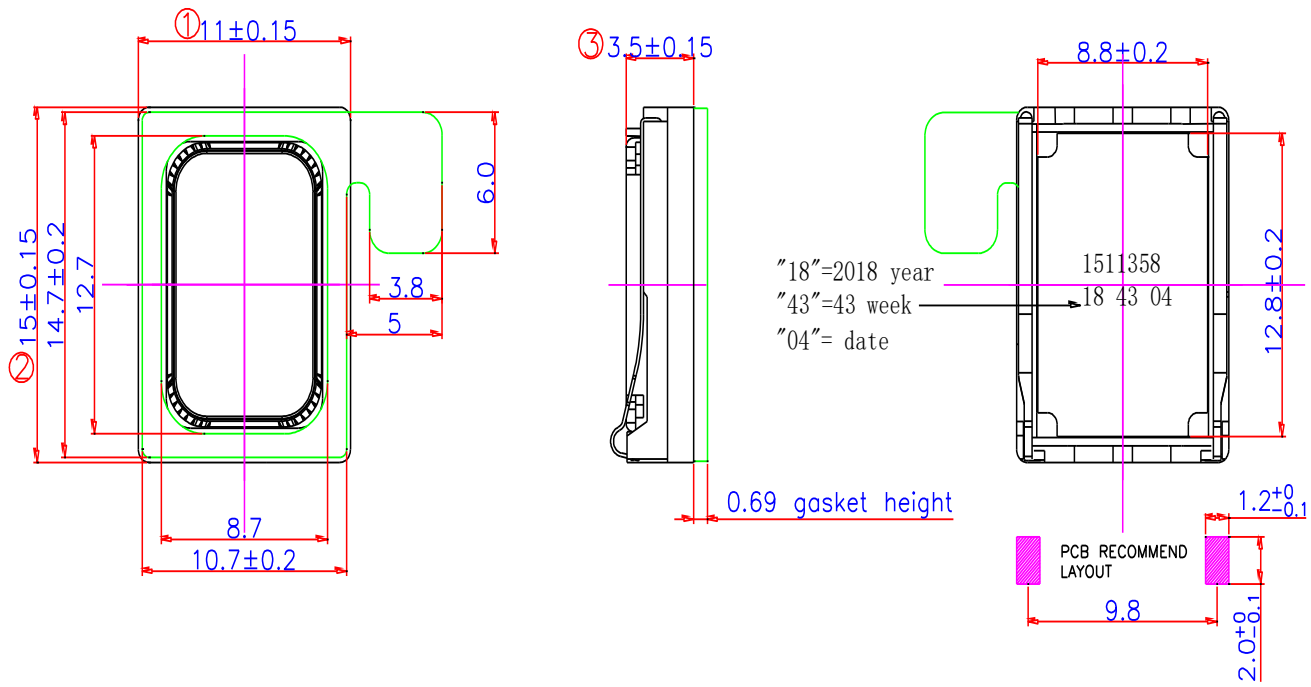
Parameter	Conditions/Description	Values	Units
Rated Input Power	in 1cc closed box	0.7	W
Max Input Power	in 1cc closed box	1.0	W
Rated Impedance	1V input	6±15%	Ω
Sound Pressure Level	0.7W/0.1M at AVE 0.8K 1.0K 1.2K 1.5K Hz	89±3	dB
Resonant Frequency (Fo)	In Free air in 1.0cc closed box	550±20% 850±20%	Hz
Frequency Range		F0-10k	Hz
Distortion	at 1K Hz, input 1.0V, in 1cc box	< 10%	-
Magnet	NdFeB		
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz, in 1cc box	2.04	V
Polarity	cone will move forward with positive dc current to "+" terminal		
Weight		1.5	g
Operating		-20~+60	℃
Storage Temperature		-30-+70	℃
WaterProof		NA	

Notes: All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: ±0.15mm

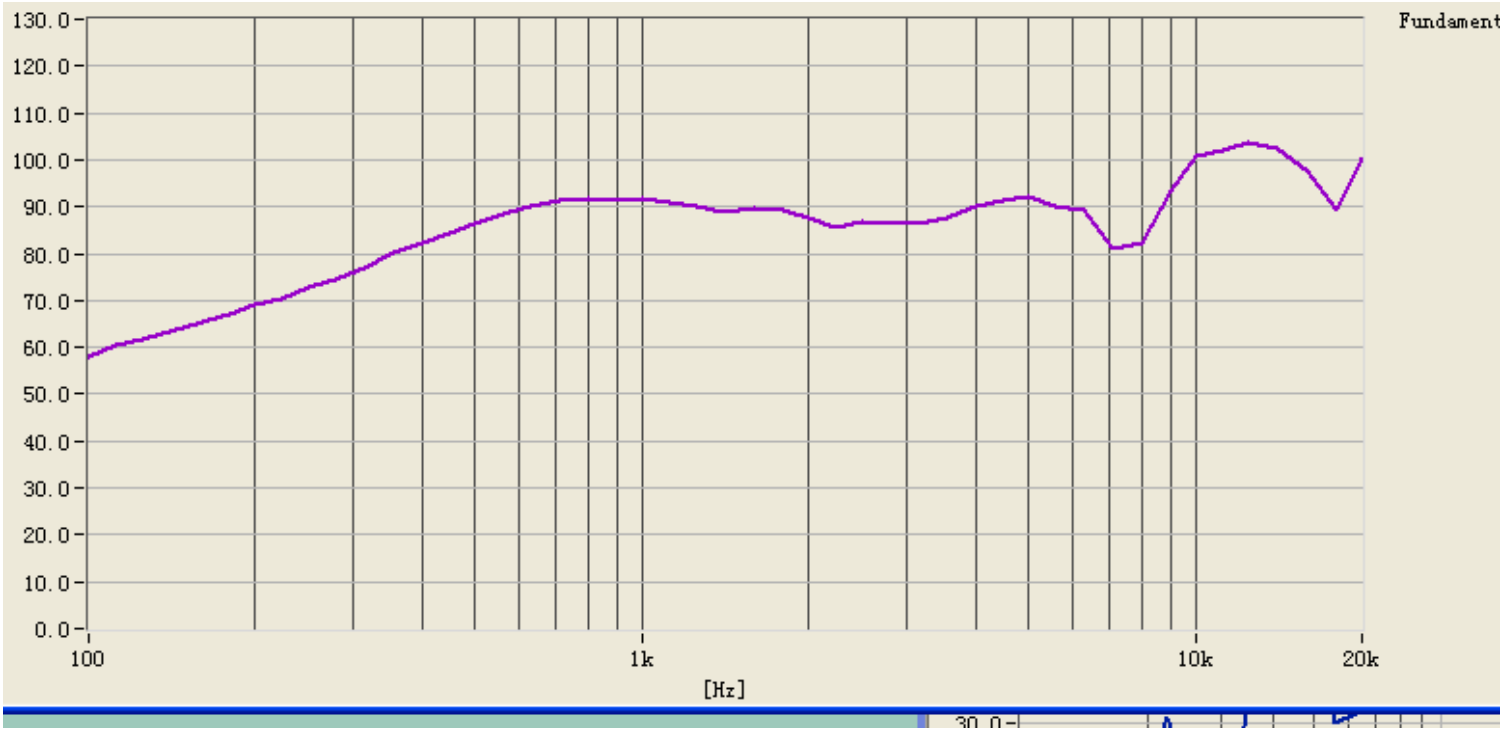


CONSTRUCTION DETAIL

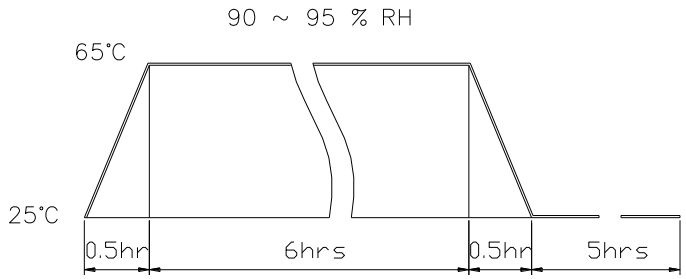
6	Gasket	1	PORGON	
5	Diaphragm	1	PEEK	
4	VOICE COIL	1	COPPER WIRE	
3	Plate	1	SPCC	
2	Magnet	3	NdFeB	
1	Frame	1	PPA	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

RESPONSE CURVES

Frequency Response Curve



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 +80℃
3	Low Temperature Test	96 hours at -40℃
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 Pink-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

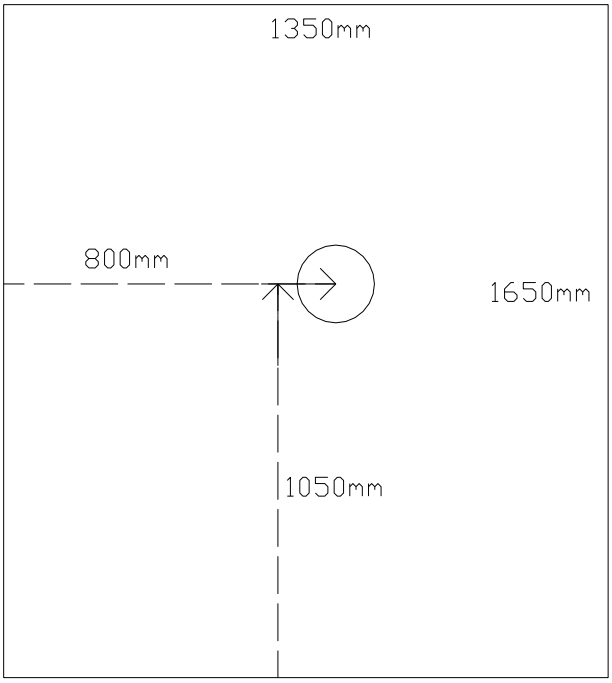


Fig. 1 Block Diagram for Measurement Method

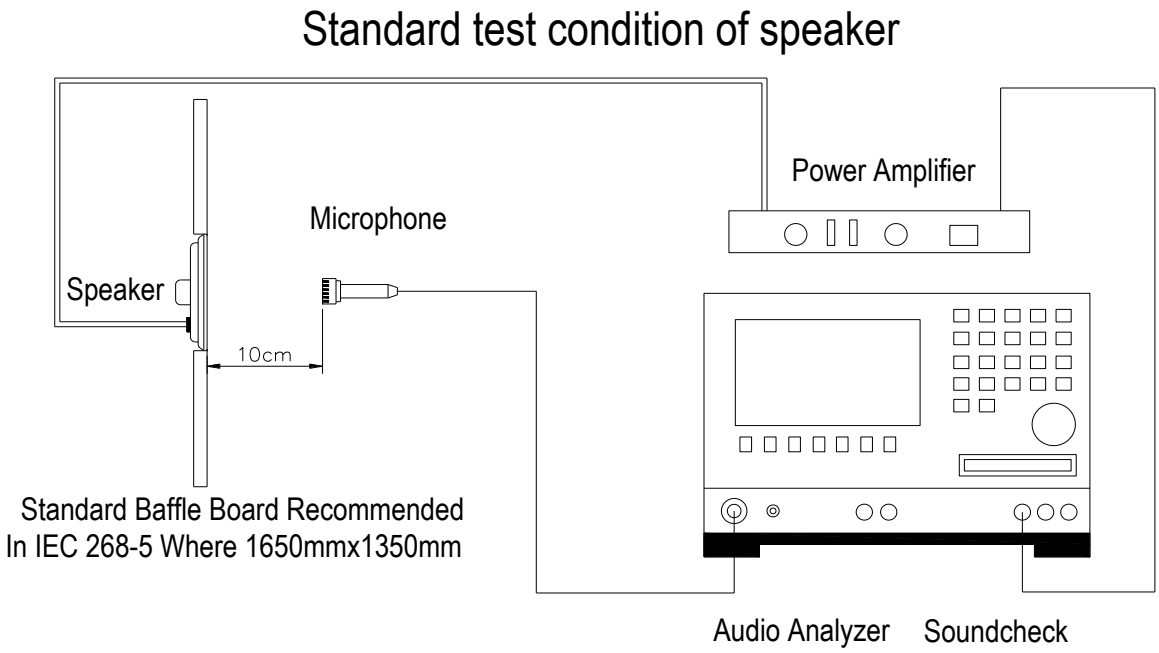


Fig. 2 Speaker Test Condition

PACKAGING

units: mm

每盘 100 个 100pcs of speaker in each tray

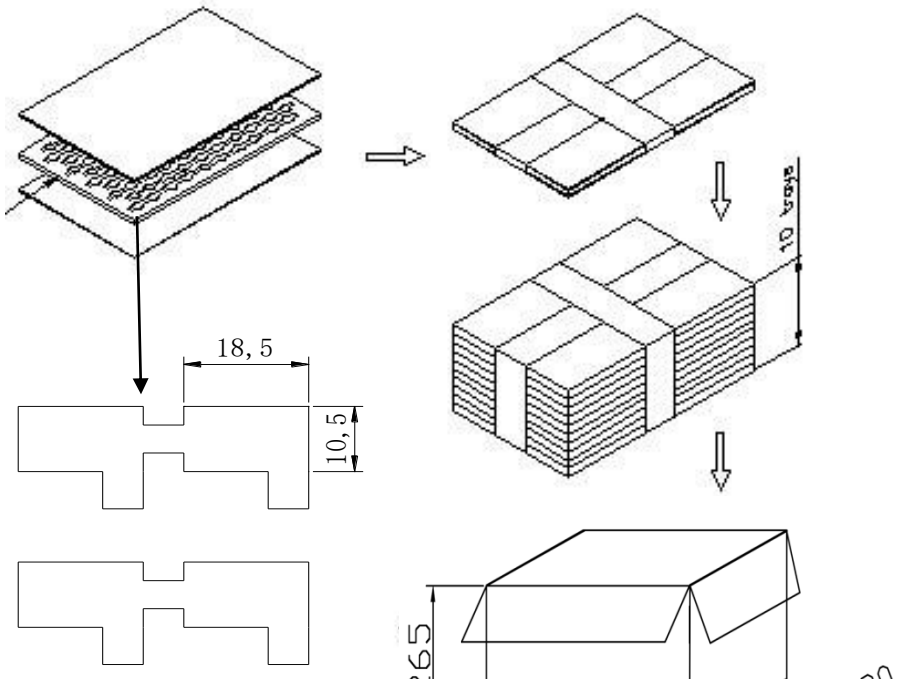
每箱 20 盘 20 trays in one carton

总计:2000 个 / 1 箱 Total:2000 pcs / 1 carton

毛重: 4.5KGS Gross Weight:4.5KGS

净重: 3.0KGS Net Weight: 3.0KGS

内包装增加提手



泡棉内部尺寸：
18.5*10.5*5.5Hmm

缺口尺寸：
6.0*6.0mm