



**Dynamic Loudspeaker  
with spring  
& waterproof  
15 × 11 × 2.5 mm**

**CR1511L025YN8WP**

**Revision**

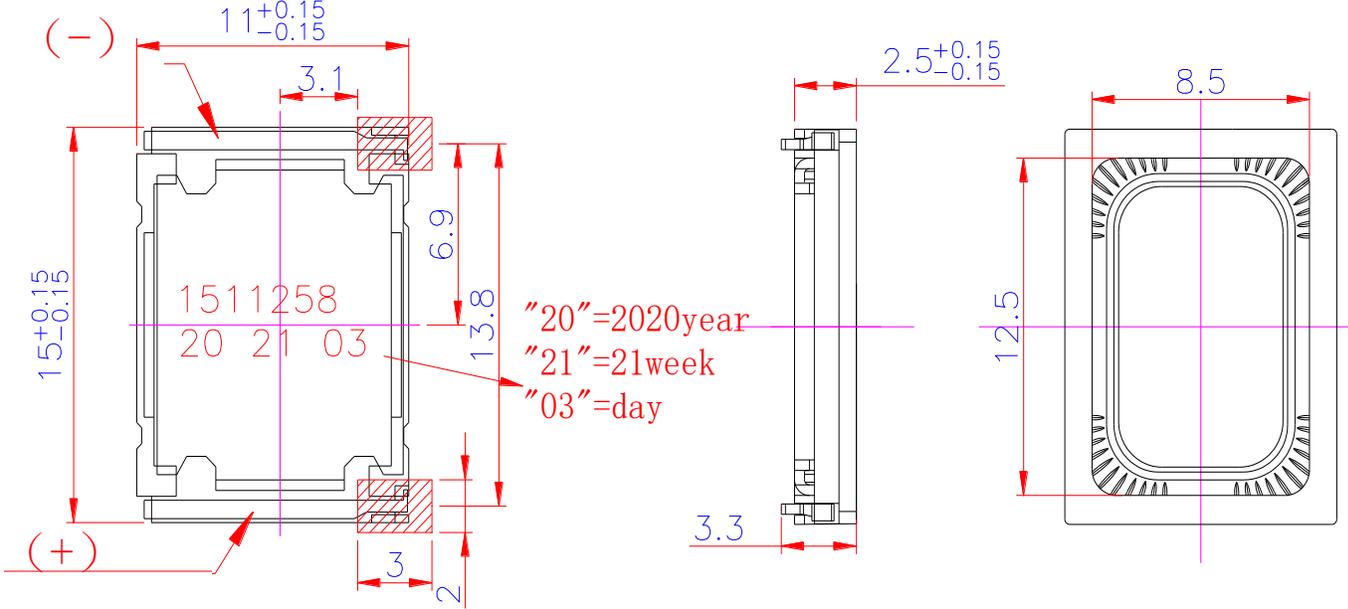
<b>Date</b>	<b>Version</b>	<b>Status</b>	<b>Changes</b>	<b>Approver</b>
2019/8/5	V0.1	Draft	Initial release	AX
2019/10/11	V0.2	Draft	Update drawing for speaker testing	AX
2020/5/20	V0.3	Draft	Add PCB layout & overshoot & print code	AX
2020/6/15	V0.4	Draft	Add THD curves	AX

Parameter	Conditions/Description	Values	Units
Rated Input Power	in 1cc closed box	0.8	W
Max Input Power	in 1cc closed box	1.2	W
Rated Impedance	1V input	8±15%	Ω
Sound Pressure Level	2.53V/0.1M at 2.0K Hz, in 1cc closed box	93±3	dB
Resonant Frequency (Fo)	In Free air in 1.0cc closed box	550±20% 850±20%	Hz
Frequency Range		F0-20k	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	2.53	V
Polarity	cone will move forward with positive dc current to “+” terminal		
Weight		1.5	g
maximum		0.35	mm
Operating		-20~+60	°C
Storage Temperature		-30-+70	°C
WaterProof		IP67	

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

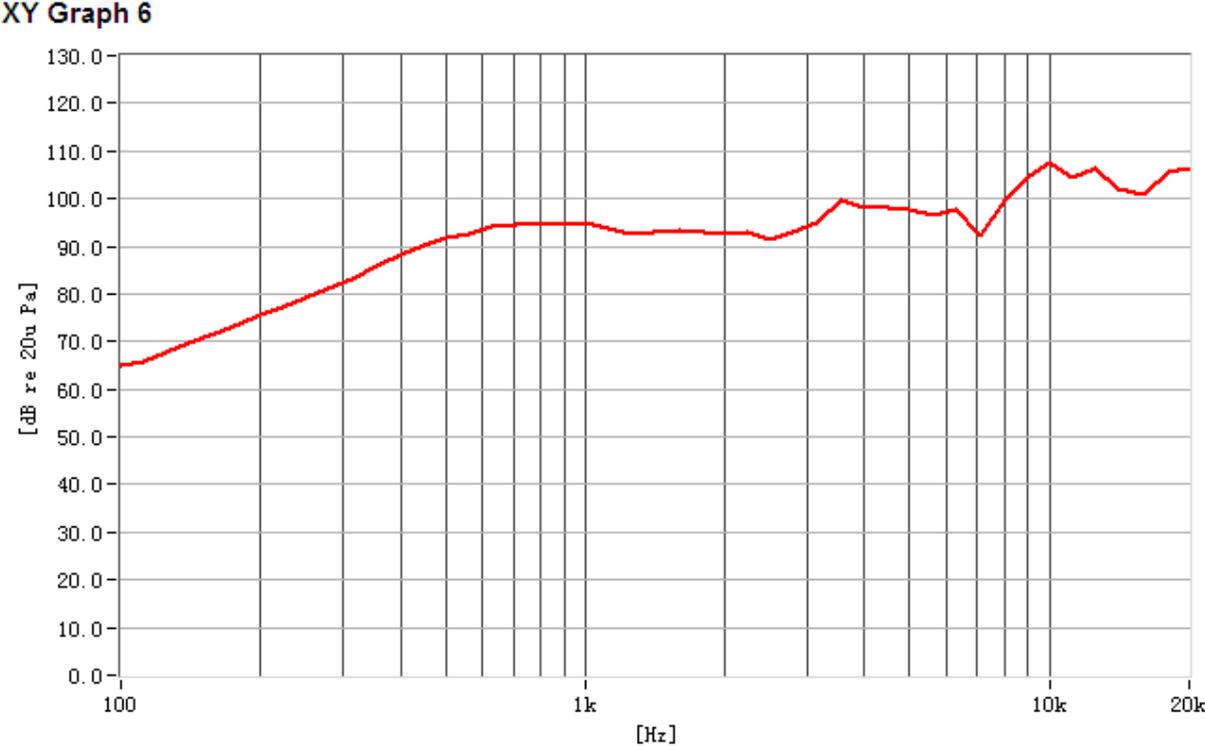


**CONSTRUCTION DETAIL**

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

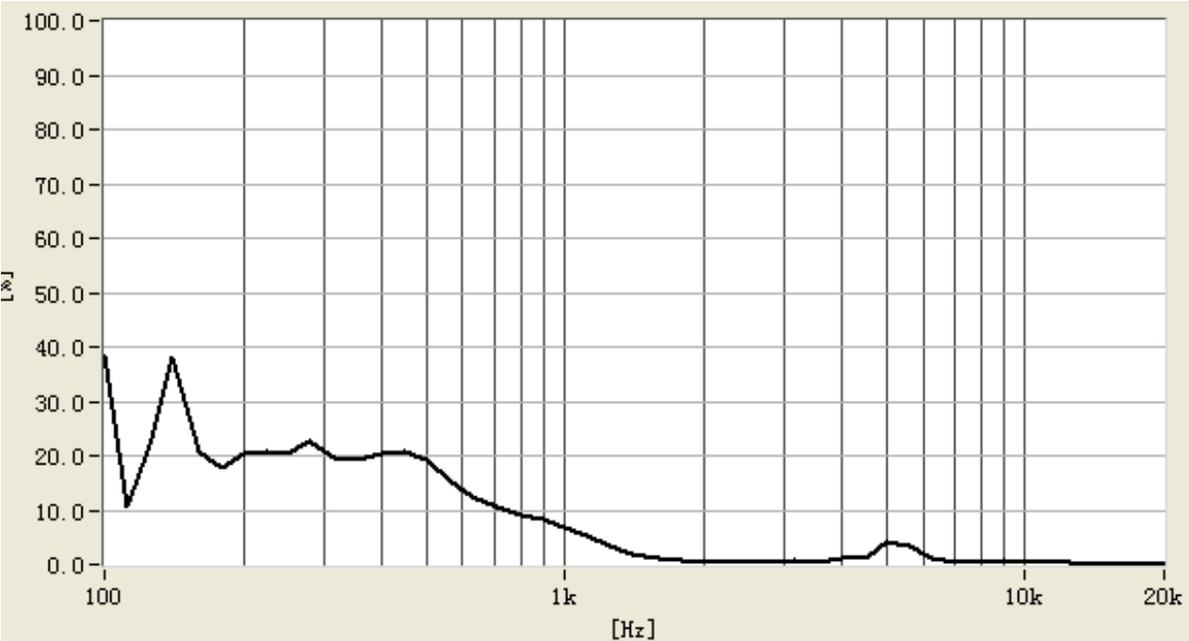
# RESPONSE CURVES

## Frequency Response Curve



0.8W , 10cm, with 1cc closed box

## THD



0.8W , 10cm, with 1cc closed box

**RELIABILITY TEST**

1	Reliability Test Performance	After any following test, parts should conform to original performance within $\pm 3$ dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Test	96 hours at +60°C
3	Low Temperature Test	96 hours at -20°C
4	Humidity Test	96 hours at +30°C $\pm$ 3°C, 92-95% RH
5	Temp./Humidity Cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of</p>
6	Vibration Test	<p>Frequency: 10~55~10Hz Oct/min      Amplitude: 1.5mm</p> <p>Duration: 2 hours each of 3 perpendicular directions</p>
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

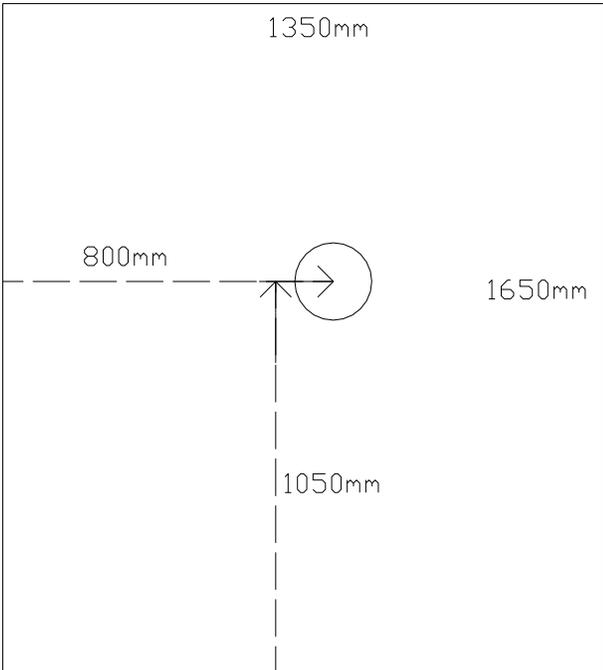


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker

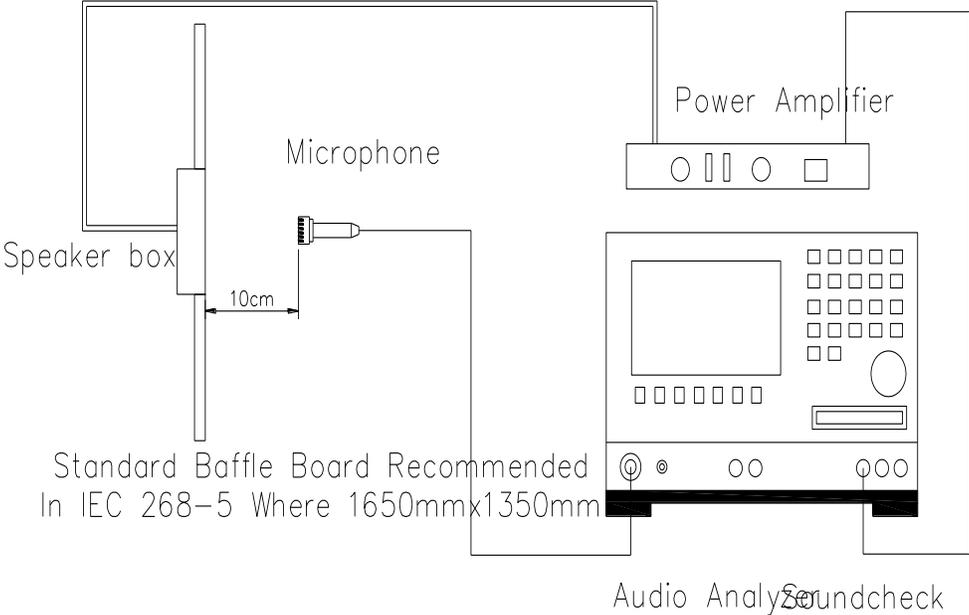


Fig. 2 Speaker Test Condition

# 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

