Dynamic Loudspeaker

15×11×3.0 mm

CR1511L030UN8-2

Revision

Date	Version	Status	Changes	Approver
2018/08/06	V0.1	Draft	Initial release	AX
2018/8/14	V0.2		Add mechanical dimension	AX
2018/8/28	V0.3		Add tray size	AX
2018/9/6	V0.4		Change SPL testing condition	AX
2018/9/11	V0.5		Chang Frequency range	AX
2018/9/14	V0.6		Add THD curve	AX

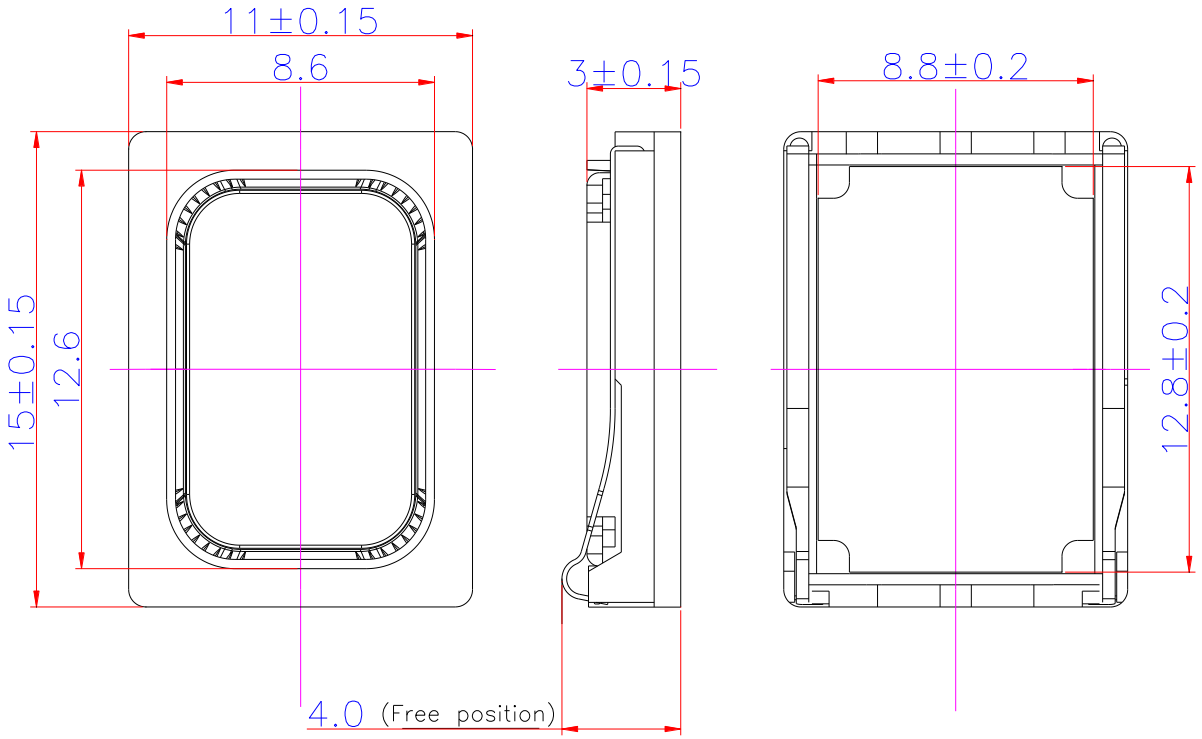
Parameter	Conditions/Description	Values	Units
Rated Input Power	in 1cc closed box	0.8	W
Max Input Power	in 1cc closed box	1.0	W
Rated Impedance	1V input	8±15%	Ω
Sound Pressure Level	2.53/0.1M at 2.0K Hz，in 1cc closed box	92±3	dB
Resonant Frequency (Fo)	In Free air in 1.0cc closed box	600±20% 900±20%	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	2.53	V
Polarity	cone will move forward with positive dc current to "+" terminal		
Weight		1.5	g
Operating		-30~+70	℃
Storage Temperature		-40-+80	℃
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

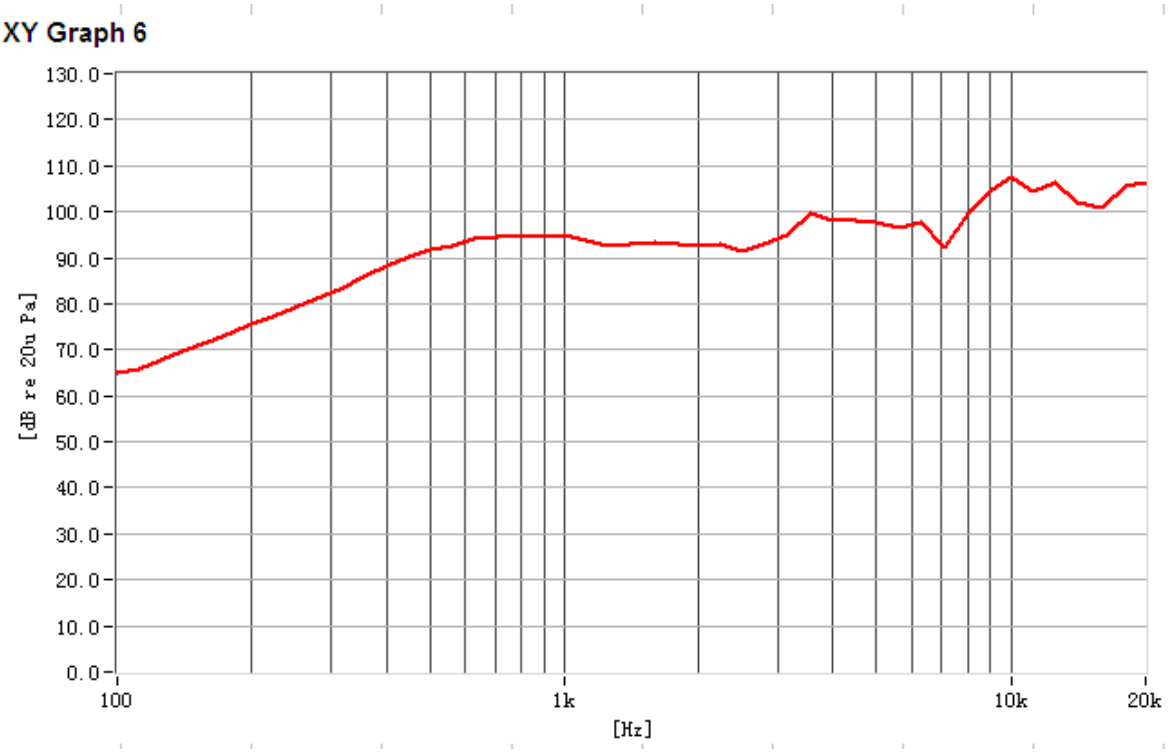


CONSTRUCTION DETAIL

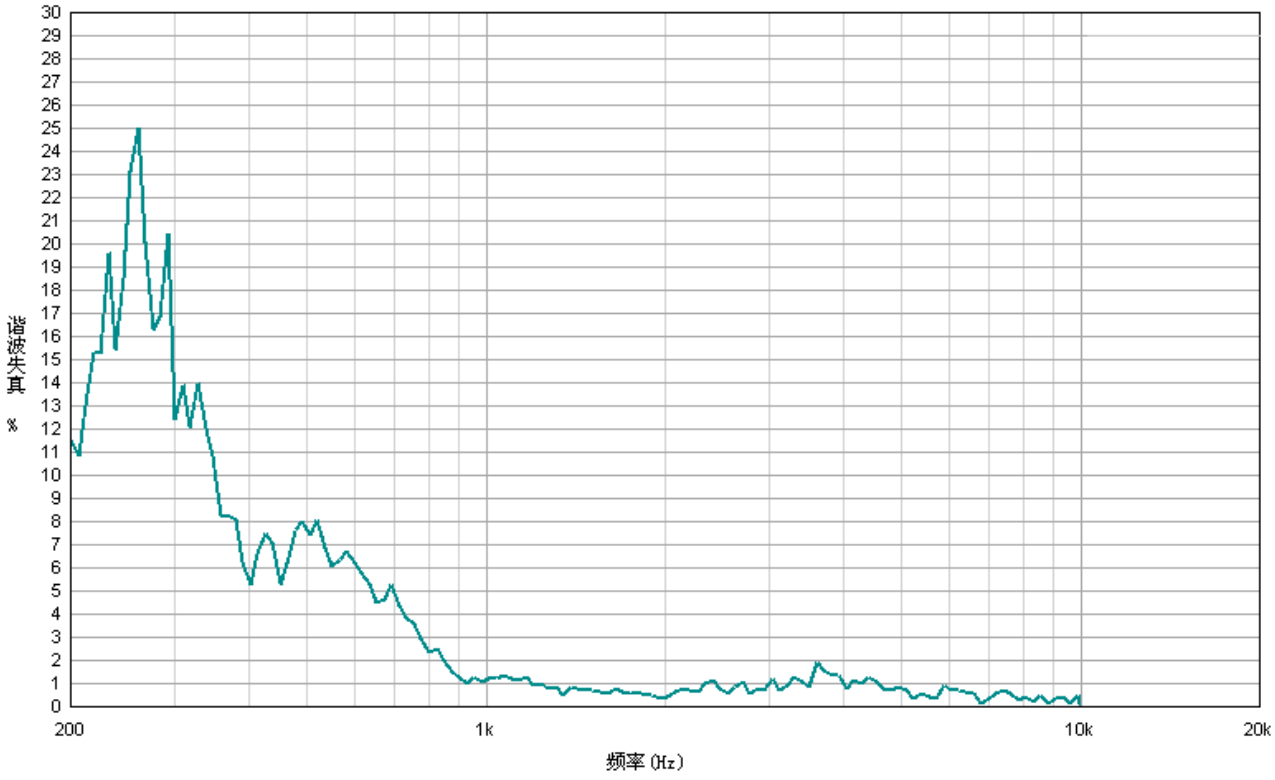
5	Diaphragm	1	PEEK	
4	VOICE COIL	1	COPPER WIRE	
3	Plate	1	SPCC	
2	Magnet	1	NdFeB	
1	Frame	1	PPA	
The material must be meet to GU-001				
PART NO.	PART NAME	Q'TY	MATERIAL	REMARK

RESPONSE CURVES

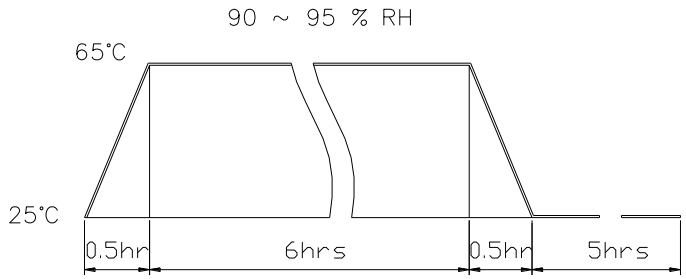
Frequency Response Curve



Total Harmonic Distortion 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

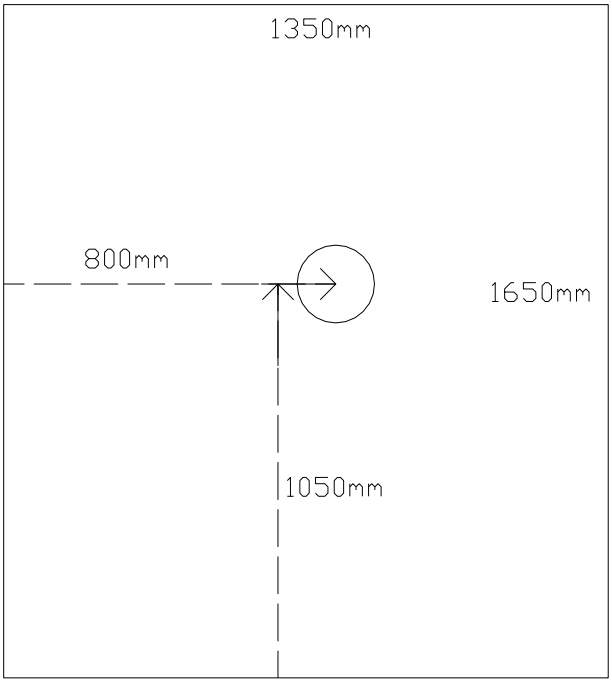


Fig. 1 Block Diagram for Measurement Method

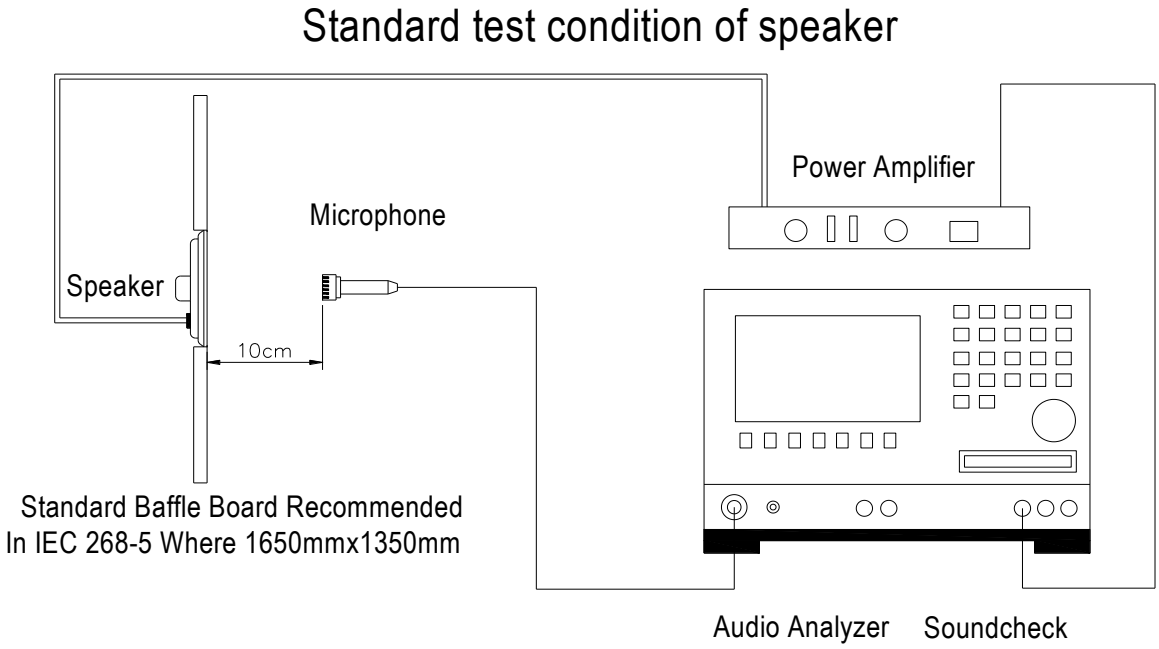


Fig. 2 Speaker Test Condition

PACKAGING

units: mm

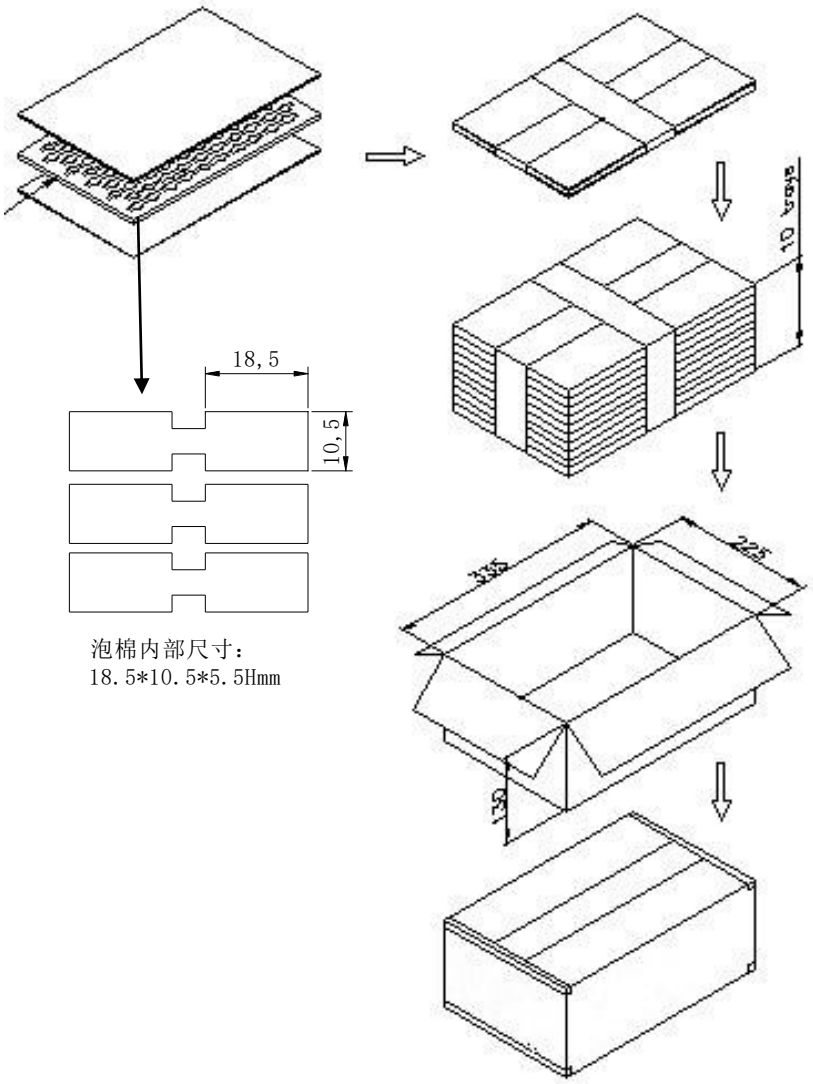
每盘 100 个 100pcs of speaker in each tray

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



泡棉内部尺寸：
18.5*10.5*5.5Hmm