

Dynamic Loudspeaker 15×11×3.5 mm

CR1511L035UN8A

Revision

Date	Version	Status	Changes	Approver
2019/1/31	V0.1	Draft	Initial release	AX
2019/4/28	V0.2	Draft	Update print code	AX

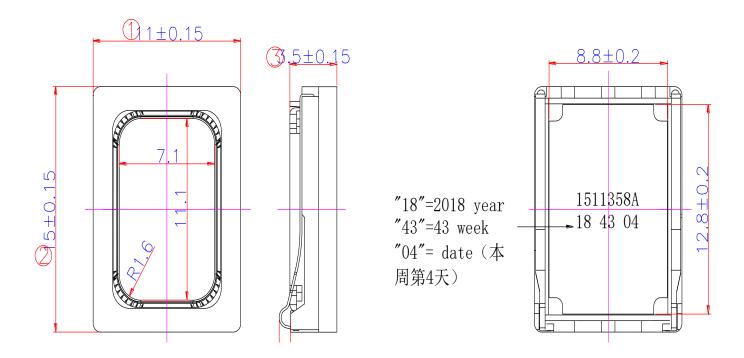
Parameter	Conditions/Description	Values	Units
Rated Input Power	in 1cc closed box	0.7	W
Max Input Power	in 1cc closed box	1.0	W
Rated Impedance	1V input	8±15%	Ω
Sound Pressure Level	0.7W/0.1M at AVE 0.8K 1.0K 1.2K 1.5K Hz	89±3	dB
Resonant Frequency	In Free air	550±20%	Hz
(Fo)	in 1.0cc closed box	850±20%	
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,	2.35	V
buzz, Rattie, etc.	in 1cc box	2.33	V
Polarity	cone will move forward with positive dc current to		
Folanty	"+" terminal		
Weight		1.5	g
max membrane		0.35	mm
excursion			
Operating		-40~+85	°C
Storage Temperature		-40-+85	°C
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

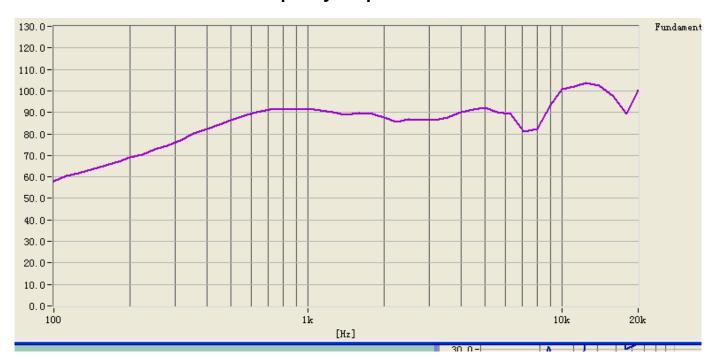
Tolerance: ±0.15mm



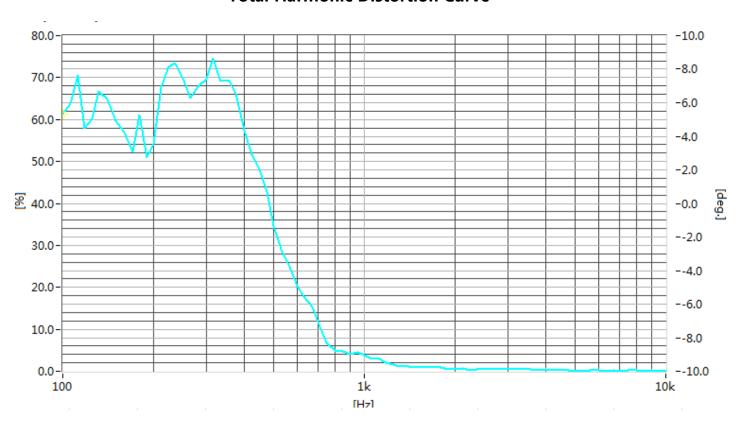
CONSTRUCTION DETAIL

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

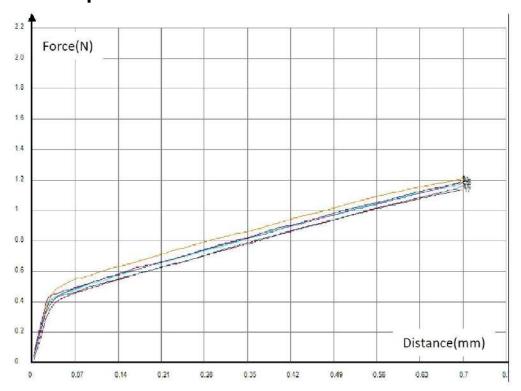
Frequency Response Curve



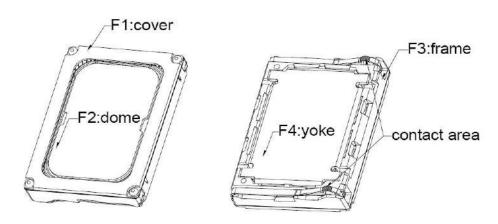
Total Harmonic Distortion Curve



spring force vs displacement curve



maximum force on speaker (N)



Max.	Permitted cor	npressio	n forces:
NO.	From	То	Maxforce
1	F1	F3	10N
2	F4	F3	10N
3	F2		ON

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°C
3	Low Temperature Test	96 hours at -40°C
4	Humidity Test	96 hours at +30°C±3°C, 92-95% RH
5	Temp./Humidity Cycle	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of $90 \sim 95 \% \text{ RH}$ 65°C 9.5hr 65°C 9.5hr 65°C 9.5hr 65°C
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;

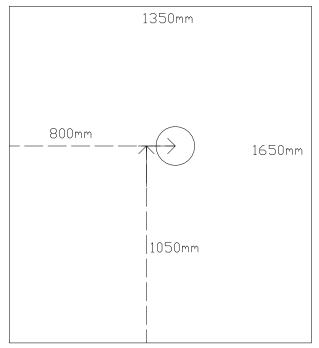


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker

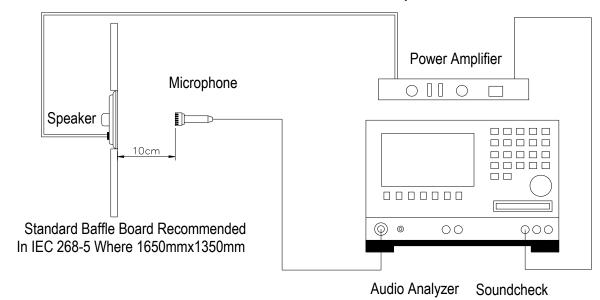


Fig. 2 Speaker Test Condition

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

