Dynamic Loudspeaker

25×14×6.0 mm

CR2514S060YN4

Revision

Date	Version	Status	Changes	Approver
2021/12/08	V0.1	Draft	First release	AX

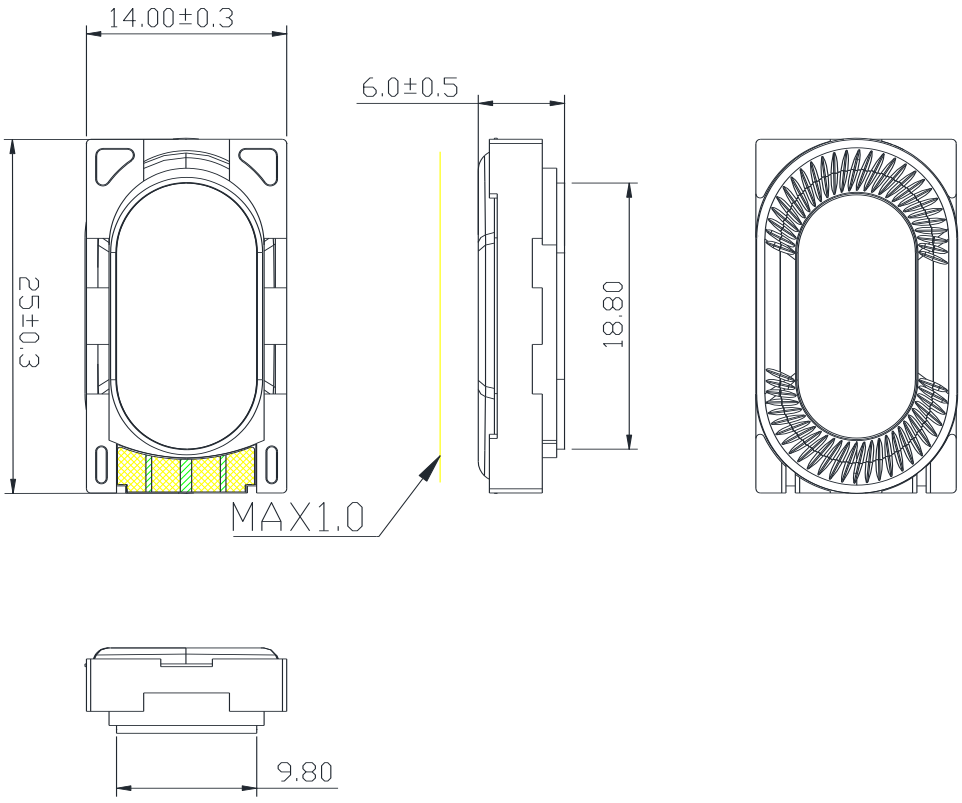
Parameter	Conditions/Description	Values	Units
Rated Input Power		2.0	W
Max Input Power	IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp	2.5	W
Impedance		4±15%	Ω
Sound Pressure Level (S.P.L.)	at 0.8K 1.0K 1.2K 1.5KHz in2.0W/0.1M average (0dB SPL=20μPa)	96±3	dB
Resonant Frequency (Fo)	at 1.0 V	650±20%	Hz
Frequency Range	Output S.P.L. -10dB	Fo~20K	Hz
Distortion	at 1K-20K Hz, input 1.0W,	≤5%	-
Magnet	NdFeB		mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	2.83	V
Polarity	cone will move forward with positive dc current to“+” terminal		
Weight			g
Operating Temperature		-30~+70	℃
Storage Temperature		-40~+85	℃
Waterproof		NA	

Notes: All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

Tolerance: ±0.5mm



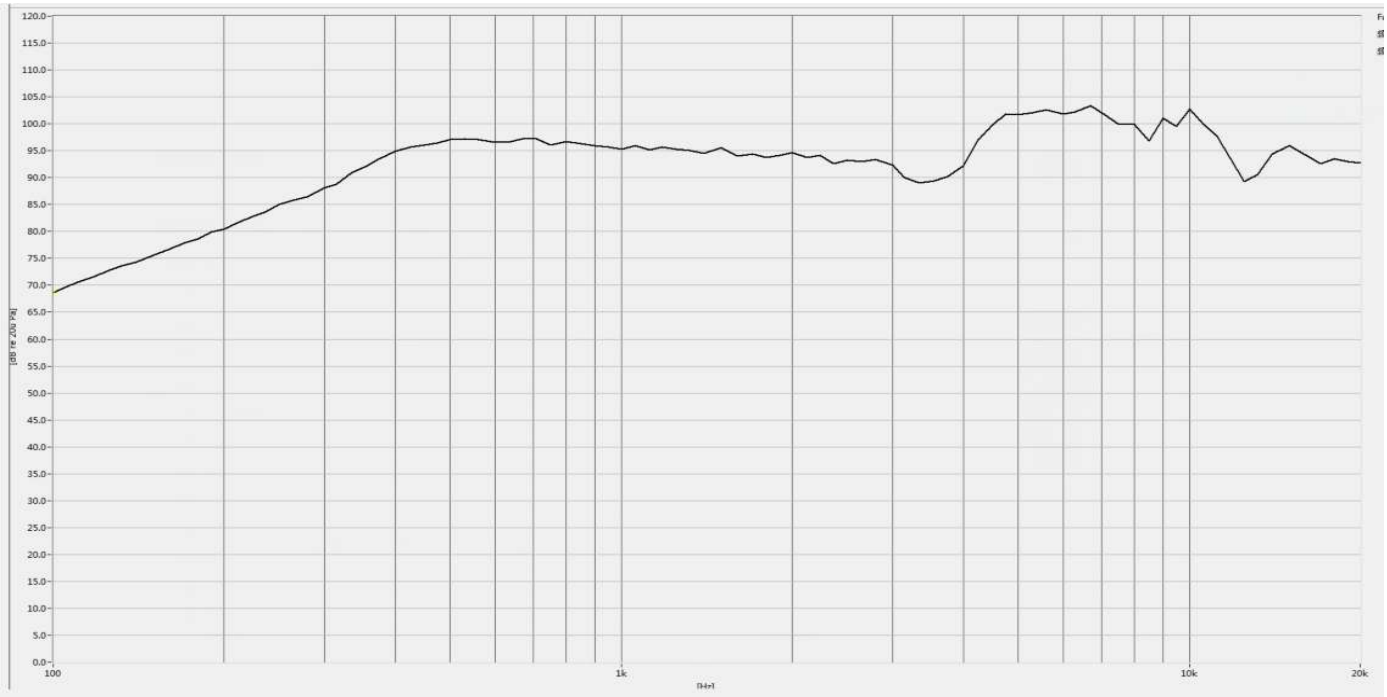
CONSTRUCTION DETAIL

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	Diaphragm	1	PEEK+AL	
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

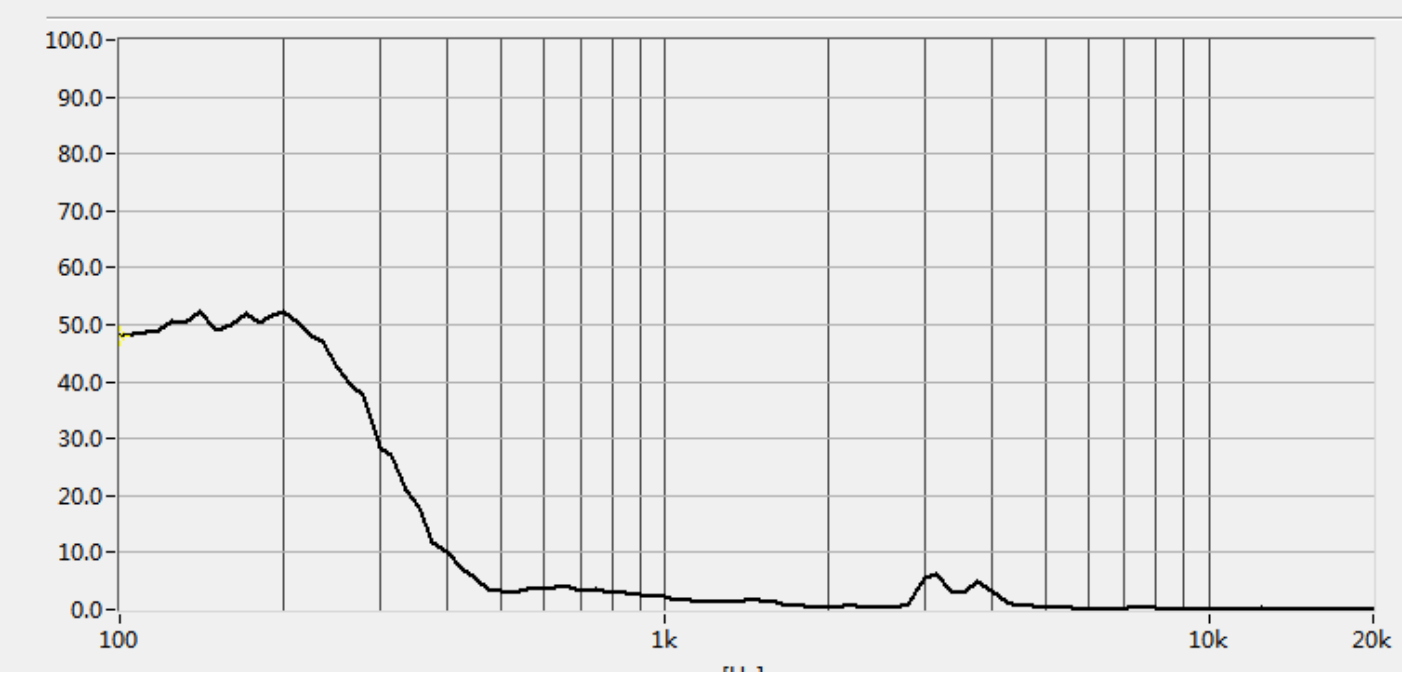
Frequency Response Curve

Test condition: 2.0W/0.1M,

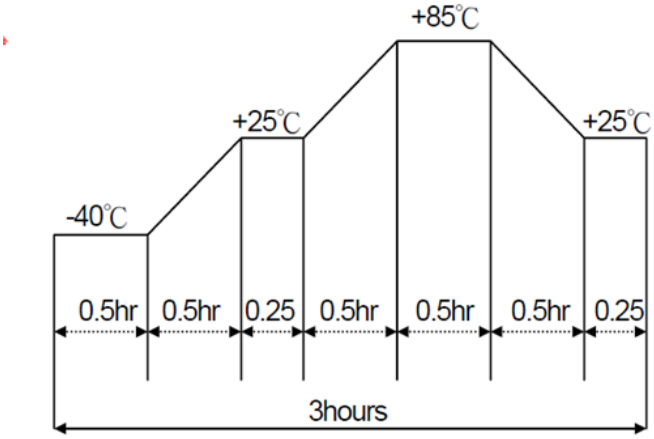


Total Harmonic Distortion Curve

Test condition:2.0W/0.1M,



RELIABLITY TEST

1	Reliability Test Performance	After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 4 hours of recovery period.
2	High Temperature Test	96 hours at +85℃±3℃
3	Low Temperature Test	96 hours at -40℃±3℃
4	Humidity Test	+40℃±2℃ Relative Humidity(RH)90~95% 96 Hours
5	Temp. Cycle Test	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

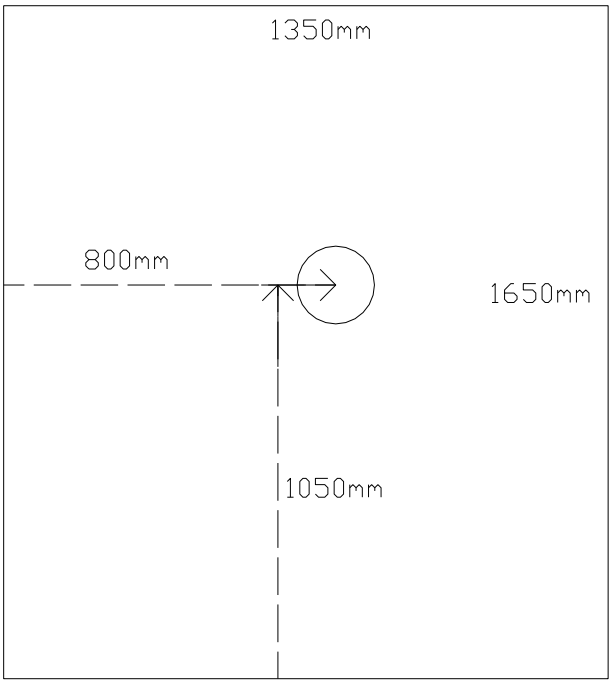
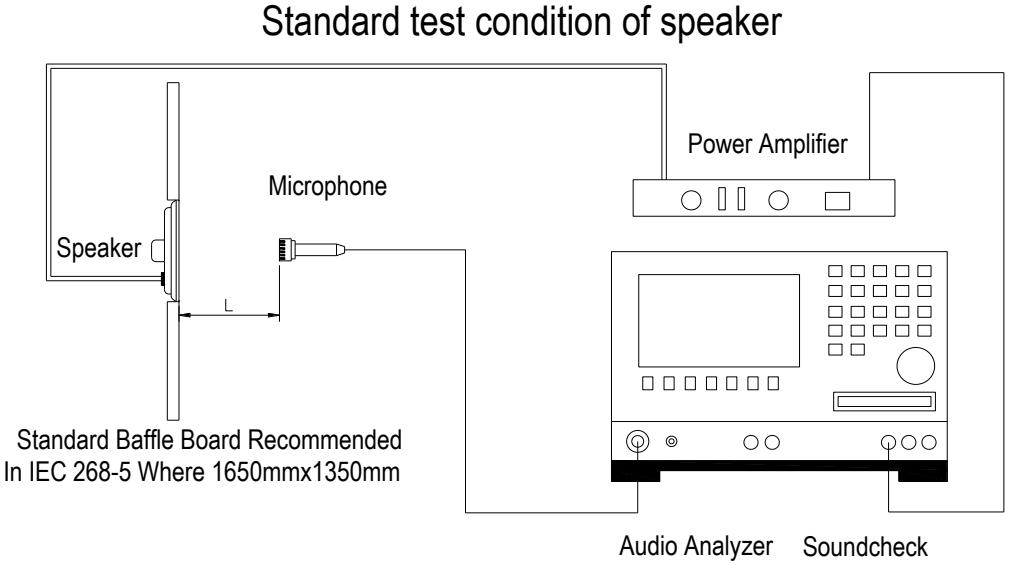


Fig. 1 Block Diagram for Measurement Method



L=10cm

Fig. 2 Speaker Test Condition

PACKAGING

units: mm
Remark:

40pcs of speaker in each tray

20trays in one carton

Total:800pcs / 1 carton

Gross Weight:KGS

Net Weight: KGS