



Dynamic loudspeaker

15 × 11 × 3.3 mm

With 30mm wires & gasket

CR1511S033YN8WDA

Revision

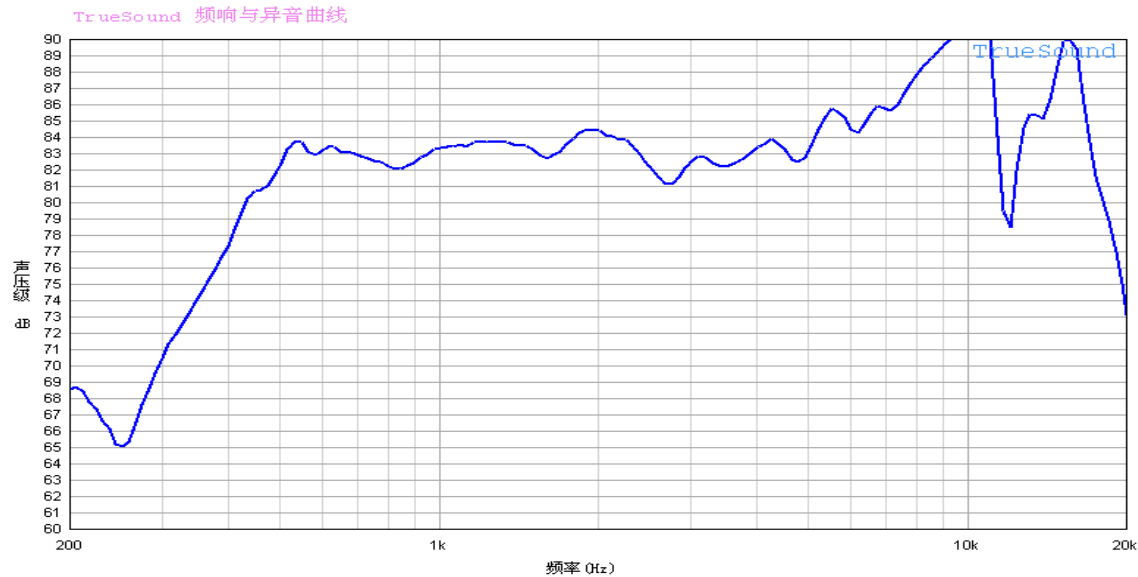
Date	Version	Status	Changes	Approver
2019/03/27	V0.1	Draft	First release	AX
2019/3/29	V0.2	Draft	Add print code	AX

Parameter	Conditions/Description	Values	Units
Rated Input Power	in 1cc closed box	0.5	W
Max Input Power	in 1cc closed box	1.0	W
Rated Impedance		8±15%	Ω
Sound Pressure Level	0.1W/0.1M at AVE 0.8K 1.0K 1.2K 1.5K Hz	84±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 0.7W	< 15%	-
Magnet	NdFeB		
Buzz, Rattle, etc.	must be normal at sine wave between 400 ~ 5kHz, in 1cc box	2.37	V
Polarity	cone will move forward with positive dc current to “+” terminal		
Weight		1.5	g
max membrane excursion		0.35	mm
Operating		-20~+60	°C
WaterProof		NA	

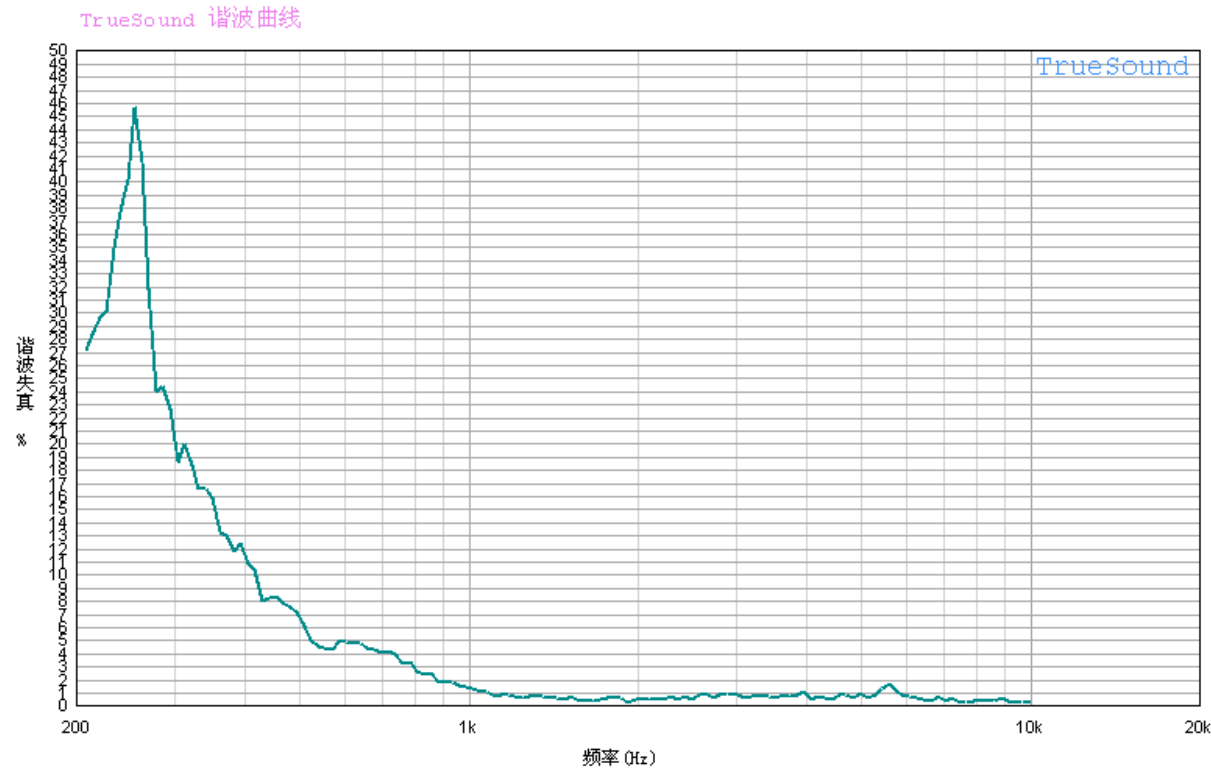
Notes: Above Measuring condition under temperature :15~35°C R.H. 25~75%. Accordig to standard GB/T9396-1996

RESPONSE CURVES

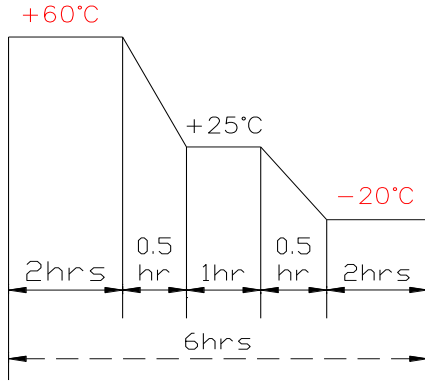
Frequency Response Curve



Total Harmonic Distortion Curve



RELIABILITY 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 $+60^{\circ}\text{C}$
3	Low Temperature Test	96 hours at -20°C
4	Humidity Test	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Relative Humidity(RH)90~95% 96 Hours
5	Temp./Humidity Cycle	The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of 
A6	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

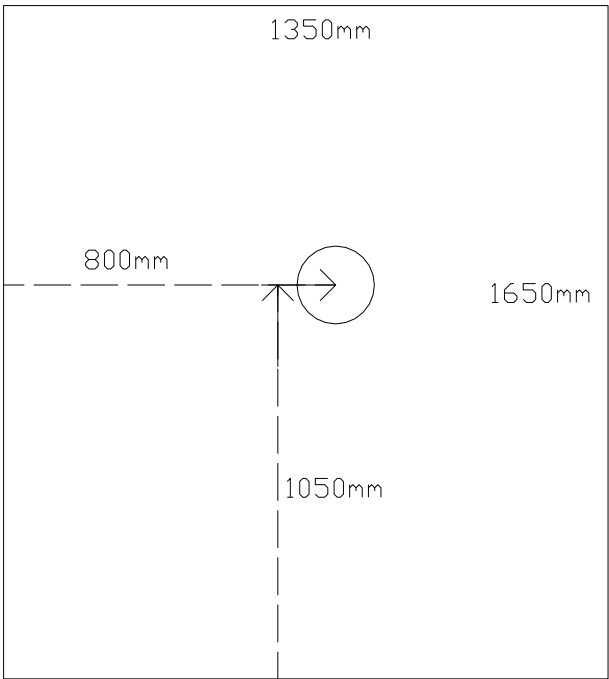


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker

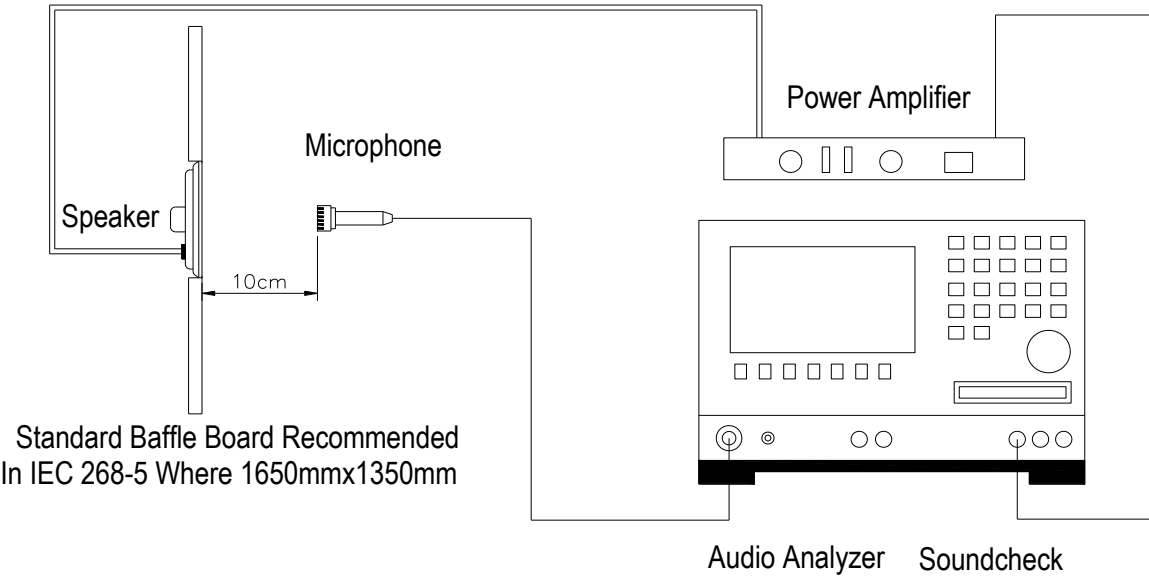


Fig. 2 Speaker Test Condition

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

