Dynamic loudspeaker

With spring

16×9×3.0 mm

CR1609S030BN6

Revision

Date	Version	Status	Changes	Approver
2018/11/15	V0.1	Draft	First release	AX

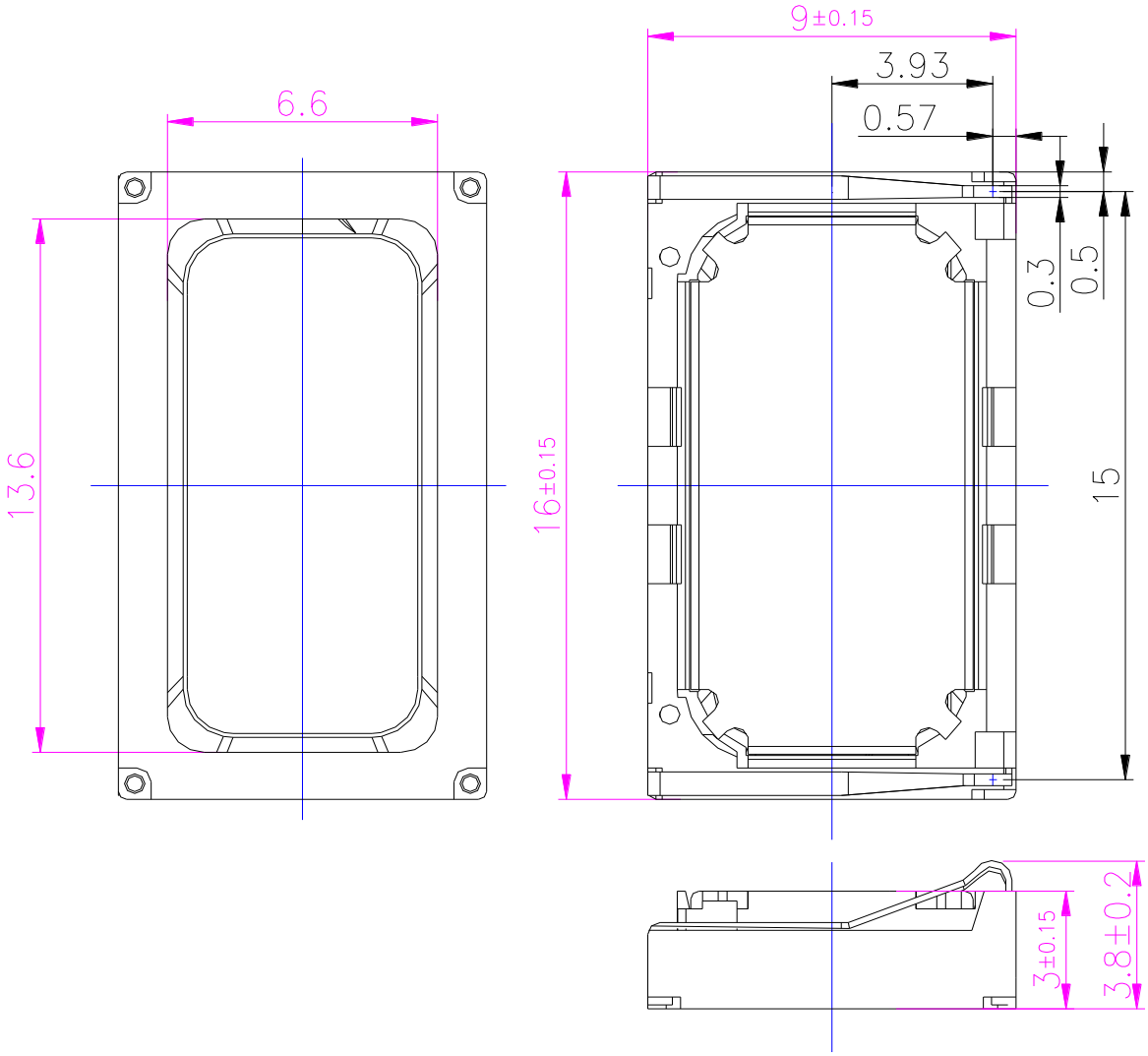
Specifications

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	at 2.0K Hz，1V input	6±15%	Ω
Sound Pressure Level	1.0v/0.1M at 2.0K Hz	86±3	dB
Resonant Frequency (Fo)	In FREE AIR	700±20%	Hz
Frequency Range		400~20K	Hz
Distortion	at 1K Hz, input 0.5W, in 1cc box	＜15%	-
Magnet	NdFeB		
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz, in free air	2.4	V
Polarity	cone will move forward with positive dc current to “+” terminal		
Weight		1.8	g
Operating		-20~+70	℃
Storage Temperature		-40~+85	℃

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

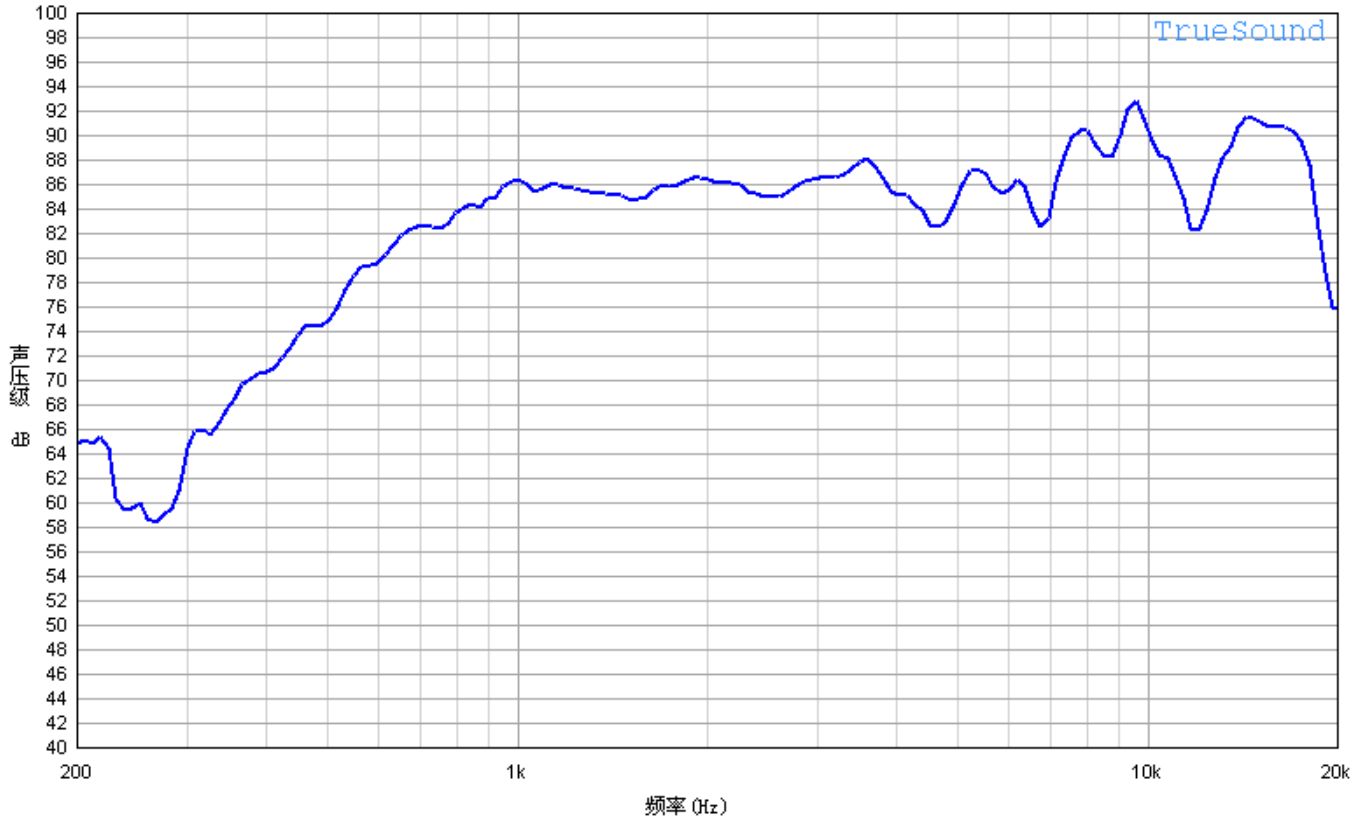


CONSTRUCTION DETAIL

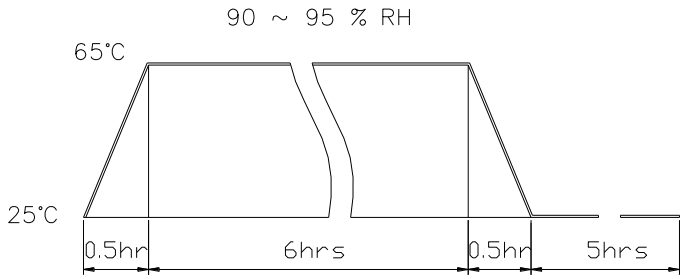
8	弹片 SPRING TERMINAL	SUS	2	
7	前盖 FRONT CAP	Plastic	1	
6	音圈 VOICE COIL	COPPER WIRE	1	
5	膜片 DIAPHRAGM	PEEK	1	
4	极片 POLE PIECE	SPCC	1	
3	磁钢 MAGNET	N42	1	
2	U 铁 U YOKE	SPCE	1	
1	主架 FRAME	Plastic	1	
编号 No.	**零件名称 PART NAME**	**材料 MATERIAL**	**数量 Q'TY**	**备注 REMARK**

RESPONSE CURVES

VOL:1V DIS:0.1M IN FREE AIR



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 +85℃±3℃
3	Low Temperature Test	96 hours at -40℃±3℃
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

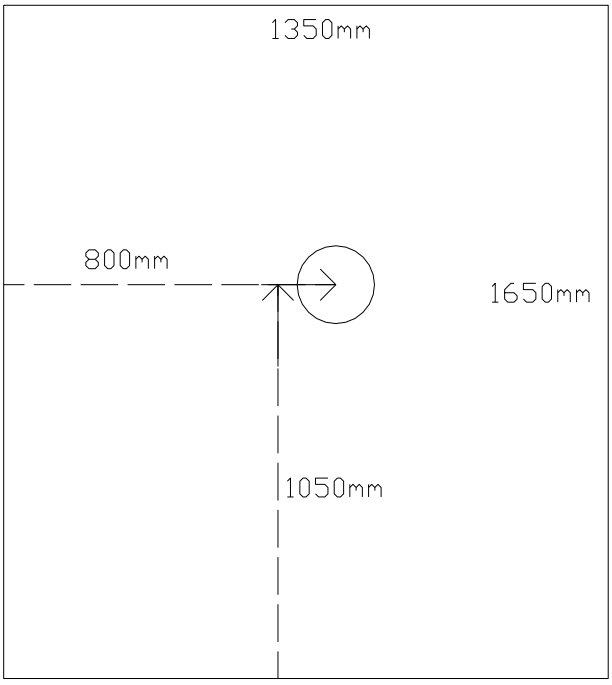


Fig. 1 Block Diagram for Measurement Method

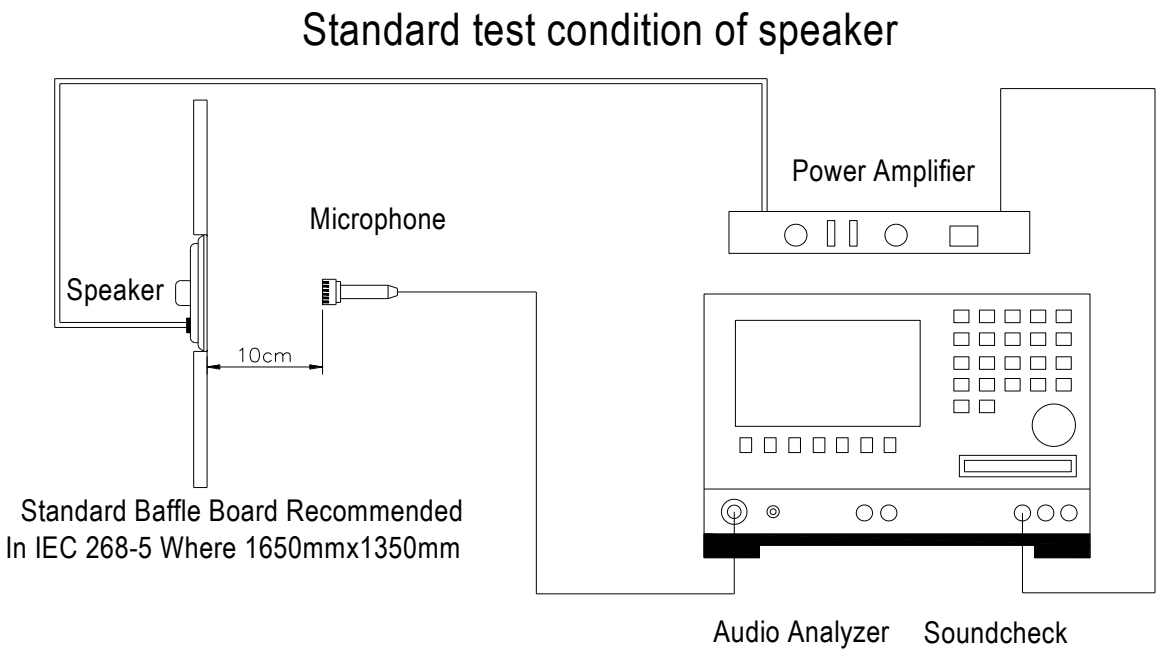


Fig. 2 Speaker Test Condition

PACKAGING

units: mm

100pcs of speaker in each tray
20 trays in one carton
Total:2000 pcs / 1 carton
Gross Weight: 4 KGS
Net Weight: 2 KGS