

Dynamic loudspeaker

 $20\times14\times3.6~\mathrm{mm}$

CO2014L036YN8

Revision

Date	Version	Status	Changes	Approver
2018/12/13	V0.1	Draft	First release	AX

SPECIFICATIONS

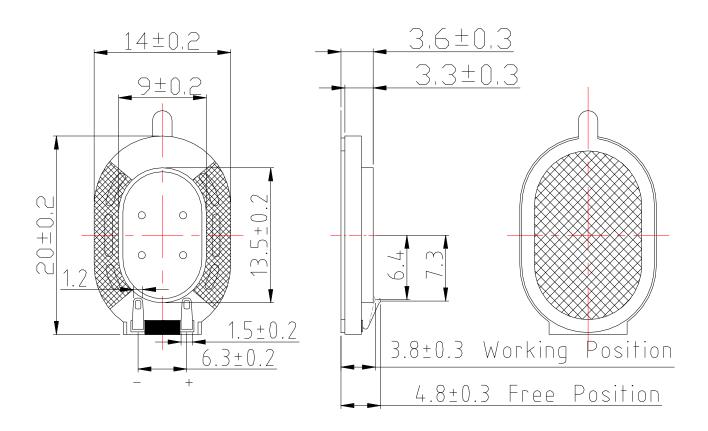
Parameter	Conditions/Description	Values	Units
Rated Input Power		0.5	W
Max Input Power		1.0	W
Rated Impedance	at 2.0 kHz	8±15%	Ω
Sound Pressure Level (S.P.L.)	at 2KHz in0.5W/0.1M average (0dB SPL=20µPa)	93±3	dB
Resonant Frequency (Fo)	at 1.0 V	800±20%	Hz
Frequency Range	Output S.P.L10dB	Fo~20K	Hz
Distortion	at 1K Hz, input 0.1W,	< 5%	-
Magnet	NdFeB	10*5.5*1.0	mm
Buzz, Rattle, etc.	must be normal at sine wave between Fo ~ 5K Hz	2.0	V
Polarity	cone will move forward with positive dc current to"+" terminal		
Weight			g
Operating Temperature		-30~+70	°C
Storage Temperature		-40~+80	°C
Waterproof Rating		N/A	

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: ±0.5mm

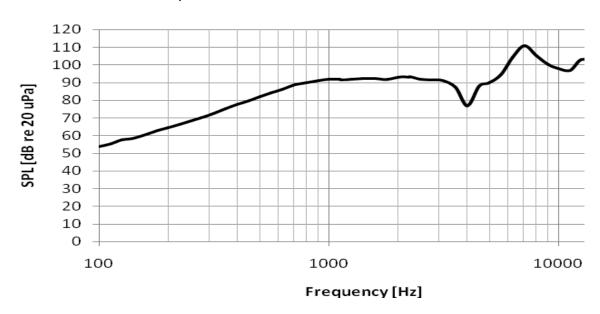


CONSTRUCTION DETAIL

PART NO.	PART NAME	Q'TY	MATERIAL	REMARK
1	Сар	1	PBT	
2	Diaphragm	1	PEN	
3	VOICE COIL	1	Cu	
4	Plate	1	SPCC	
5	Magnet	1	NdFeB	
6	PCB Terminal	1	FR4	
7	Frame	1	PBT	

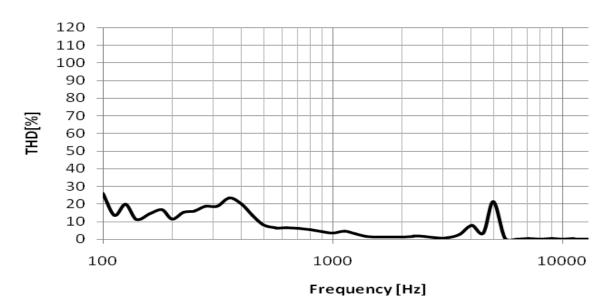
Frequency Response Curve

Test condition: 0.5W/0.1M,



Total Harmonic Distortion Curve

Test condition:0.1W/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 6 hours of recovery period.
2	High Temperature Test	96 hours at +70°C±3°C
3	Low Temperature Test	96 hours at -30°C±3°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 ~ 95 % RH 65°C 0.5hr 6hrs 0.5hr 5hrs
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;

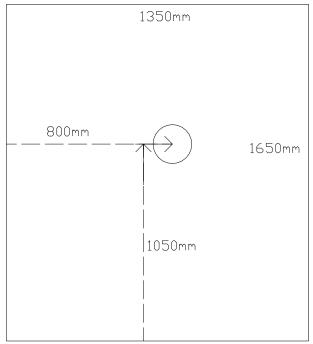
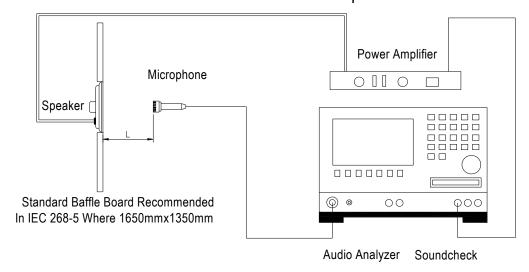


Fig. 1 Block Diagram for Measurement Method

Standard test condition of speaker



L=10cm

Fig. 2 Speaker Test Condition

PACKAGING

units: cm Remark:

100pcs per tray

10 trays for unit, 2 units per carton

Total:2000 pcs per box

Size:51.5*33*21.5cm

