



MODEL: SP-1635
PRODUCT: Dynamic Speaker
EDITION: C/2017

THIS SPECIFICATION COVERS OUR PRODUCT OF SPEAKER

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

sound pressure level	82dB(1W/0.5m) ±3dB at AVE 0.8KHz 1.0KHz 1.2KHz 1.5KHz
frequency response curve	As shown in Fig.3
resonance frequency(F0)	750 ±20%Hz
rated noise power	0.5 W
short term max power	1.0 W
frequency range	F0 ~ 20KHz
distortion	Input Rated Power to 0.5W
test set up	Measuring conditions and procedures shown in Fig 1 & Fig 2
buzz, rattle, etc	Not audible from 750Hz to 20KHz with 2.0V Sine Wave Input
polarity	When positive voltage is applied to the terminal marked (+), diaphragm should be moved to the front.
magnet	Rare earth permanent (NdFeB) magnet φ8*1.5mm
AC impedance	8 Ω ±15%
dimension	16 X 35 x 6.5mm

GENERAL REQUIREMENTS

operating temperature range	-20°C ~ +60°C
storage temperature range	-30°C ~ +70°C
standard test conditions	
temperature	5°C ~ 35°C
relative humidity	45% ~ 80%(RH)
air pressure	860 mbar ~ 1060 mbar



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RELIABILITY TESTS

After these tests, the change of S.P.L will be within ± 3 dB

HIGH TEMPERATURE TEST

high temperature	+85 \pm 3 $^{\circ}$ C
duration	96 hours

LOW TEMPERATURE TEST

low temperature	-40 \pm 3 $^{\circ}$ C
duration	96 hours

HUMIDITY TEST

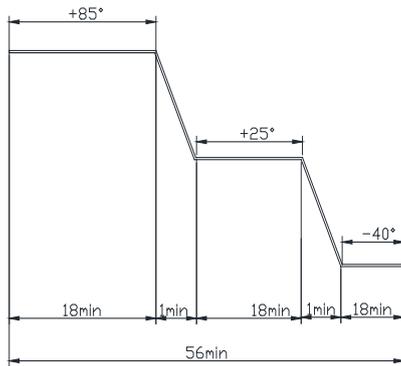
temperature	+40 \pm 3 $^{\circ}$ C
relative humidity	92%~95%
duration	96 hours

VIBRATION

10Hz ~ 55Hz ~ 10Hz	sine wave sweep 15 minute 5G(constant)
X, Y, Z	3 directions, 2 hours each, total 6 hours

TEMPERATURE/HUMIDITY CYCLE

The part will be subjected to 20 cycles. One cycle shall consist of:



DROP TEST

Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm

LOAD TEST

Rate Power Pink noise is applied for 96 hours at room temp

LEAD WIRE PULL STRENGTH

The pull force will be applied to double lead wire

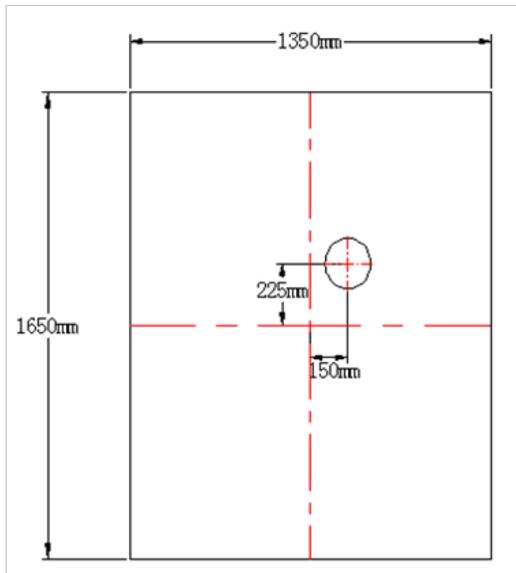
Horizontal 3.0N(0.306kg) for 30 seconds

Vertical 2.0N(0.204kg) for 30 seconds



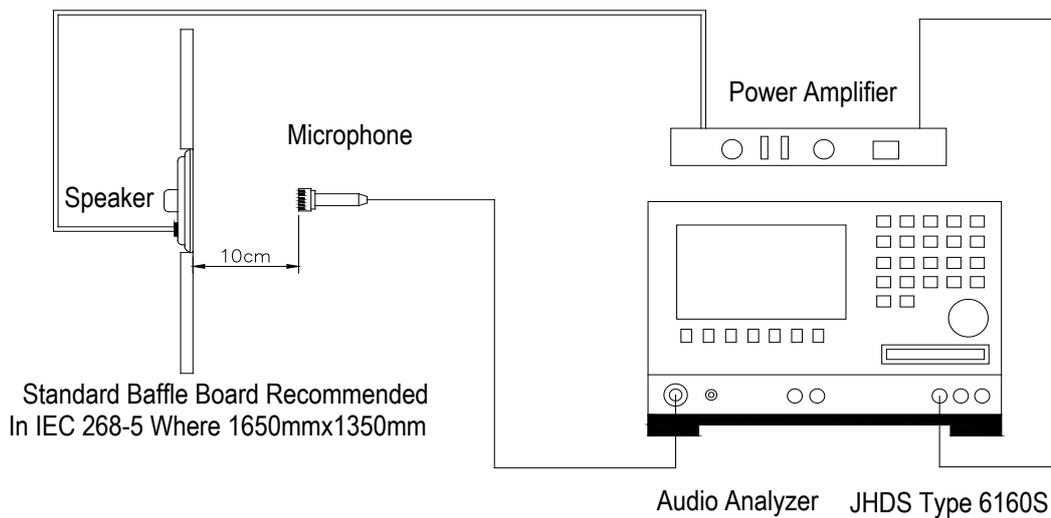
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MEASURING METHOD (SPEAKER MODE) (Fig 1)



BLOCK DIAGRAM FOR MEASUREMENT METHOD (Fig 2)

Standard test condition of speaker

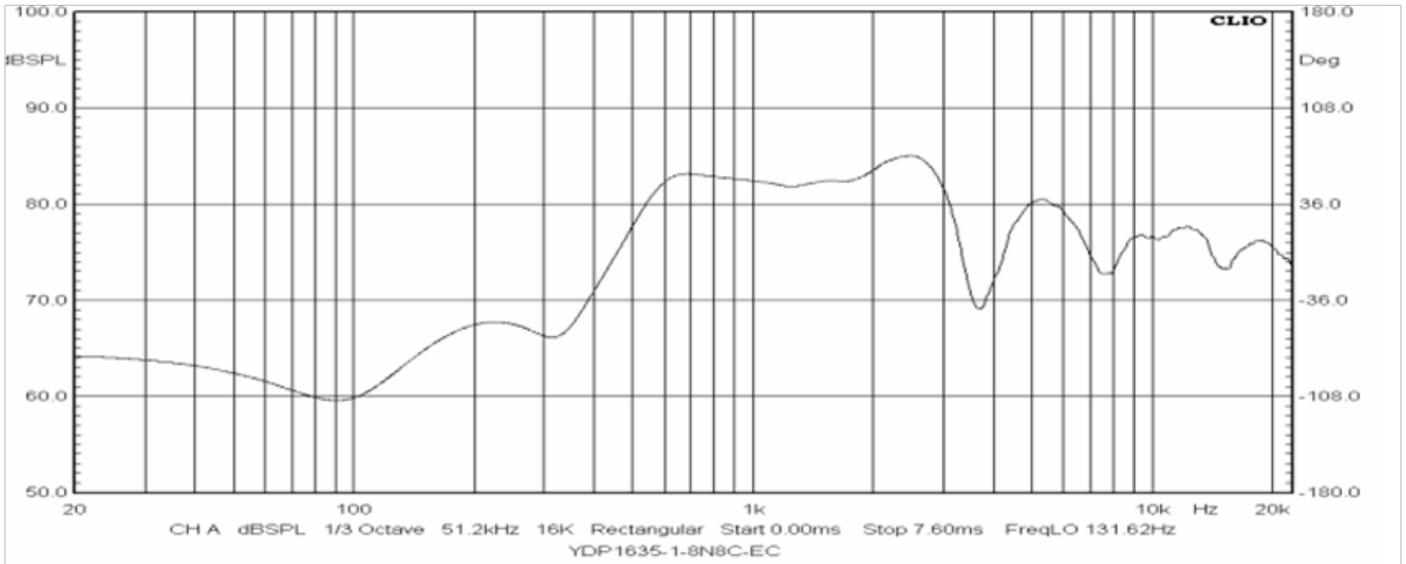




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FREQUENCY RESPONSE CURVE (Fig 3)

The swept sine-wave frequency response of a loud speaker should ideally not deviate more than indicated.

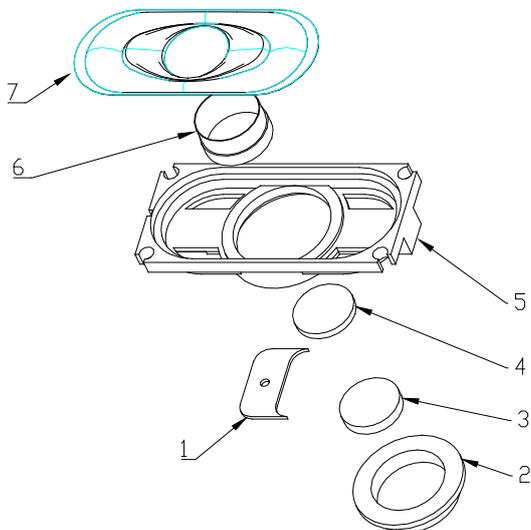
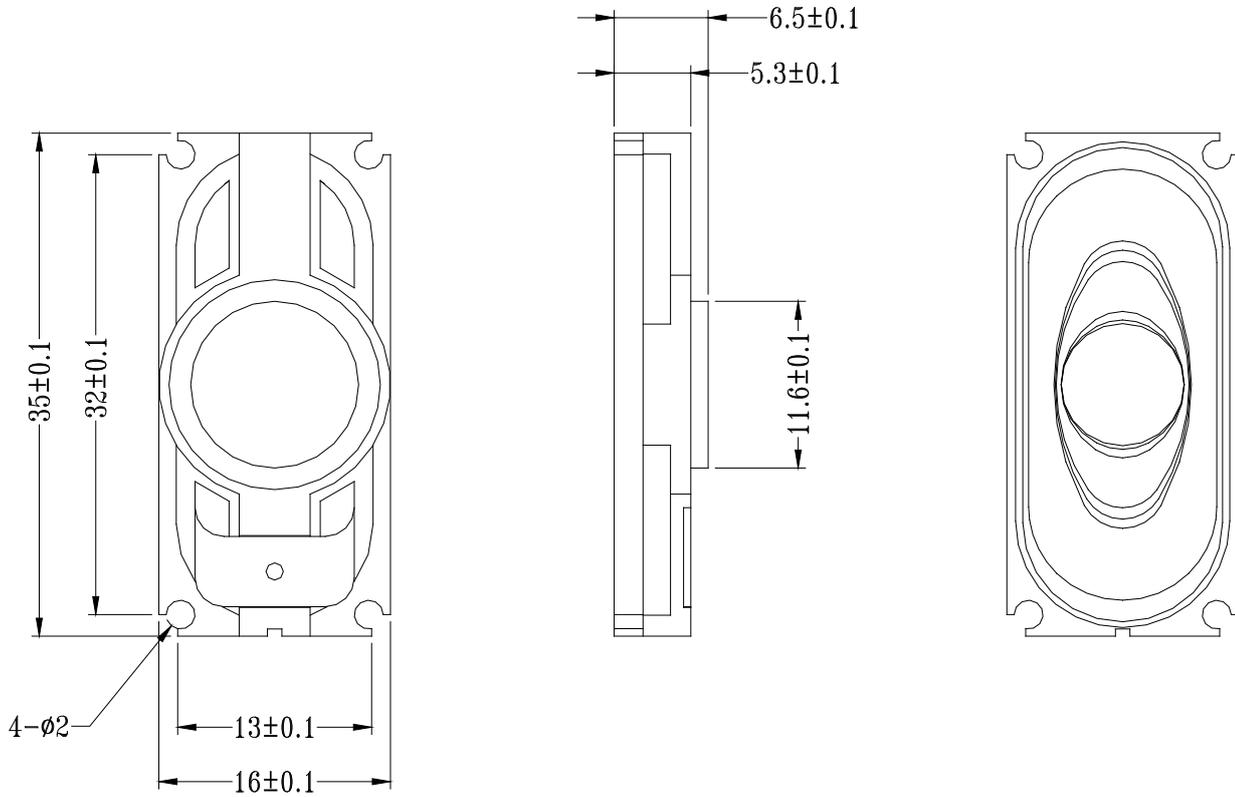




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DIMENSIONS

Tolerance: ±0.5 unit:mm



no	item	material	quantity
1	PCB Terminal	FR4	1
2	U-Yoke	SPCC	1
3	Magnet	NdFeB	1
4	Plate	SPCC	1
5	Frame	ABS	1
6	Voice Coil	KSV (φ8.75*1.8)	1
7	Diaphragm	Cloth	1



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PACKING

50 pcs per tray
20 trays per unit, 2 units per carton
Total:2000 pcs per box
Size: 51.5 x34.5 x31cm

