

PRODUCT: Dynamic Speaker

EDITION: B/2017



THIS SPECIFICATION COVERS OUR PRODUCT OF DYNAMIC SPEAKER

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

sound pressure level	90dB±3dB (0.1W/0.1m) at AVE 0.6KHz, 0.8KHz, 1.0KHz, 1.2KHz
frequency response curve	As shown in Fig.3
resonance frequency (F0)	500 ±20%Hz
rated noise power	0.25W
short-term max. power	0.5W
frequency range	F0~5.9KHz.
test setup	Measuring conditions and procedures shown in Fig 1 & Fig 2
AC impedance	8Ω ±15%
magnet	Rare earth permanent (Ferrite) magnet φ32x18x6mm
distortion	Less Than 5% @1KHz Input Rated Power
buzz, rattle, etc.	Not audible from F0 to 20KHz with 1.41V Sine Wave Input
polarity	When positive voltage is applied to the terminal marked (+), diaphragm should be moved to the front.
dimensions	ø50.0x17.0mm
weight	48g ±8%

GENERAL REQUIREMENTS

operating temperature	-20°C ~ +7	70∘⊂			
range					
storage temperature ran	storage temperature range −30°C ~ +80°C				
standard test conditions					
temperati	ure	5°C ~ 35°C			
relative hu	umidity	45% ~ 85%(RH)			
air pressu	re	860 mbar ~ 1060 mbar			



PRODUCT: Dynamic Speaker

EDITION: B/2017

Soberton Inc.

RELIABILITY TESTS

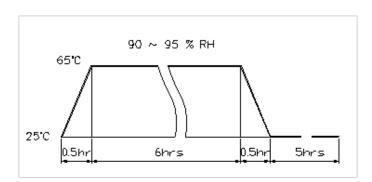
After these tests , the change of S.P.L will be within $\pm 3 dB$

HIGH TEMPERATURE TEST

high temperature	+70°C±3°C	
duration	96 hours (leave 6 hours in normal temperature and then check)	
LOW TEMPERATURE TEST		
low temperature	-30°C±3°C	
duration	96 hours (leave 6 hours in normal temperature and then check)	
HUMIDITY TEST		
 temperature	+30°C±3°C	
relative humidity	92%~95%	
duration	96 hours	
VIBRATION		
10Hz ~55Hz ~10Hz sine-wave sweep 15 minutes 5G(constant)		
X, Y, Z	3 directions, 2 hours each, total 6 hours	

TEMP./HUMIDITY CYCLE

The part will be subjected to 5 cycles. One cycle shall be 6 hours and consist of:



DROP TEST

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

LOAD TEST

Rated Power White noise is applied for 24 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

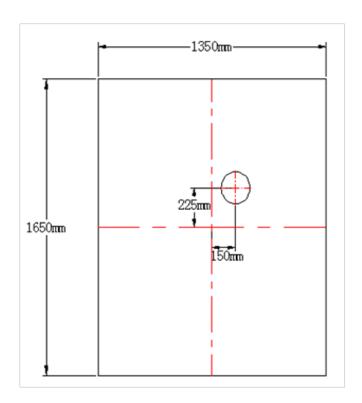


PRODUCT: Dynamic Speaker

EDITION: B/2017

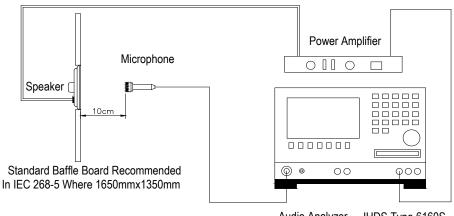
Soberton Inc.

MEASURING METHOD (SPEAKER MODE) (Fig. 1)



BLOCK DIAGRAM FOR MEASUREMENT METHOD (Fig. 2)

Standard test condition of speaker



Audio Analyzer JHDS Type 6160S



PRODUCT: Dynamic Speaker

EDITION: B/2017

Soberton Inc.

FREQUENCY RESPONSE CURVE (Fig. 3)

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





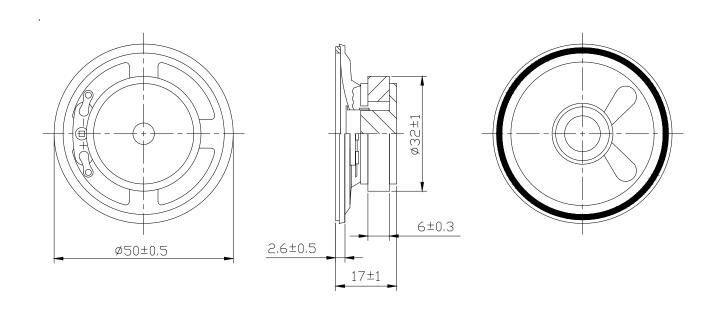
PRODUCT: Dynamic Speaker

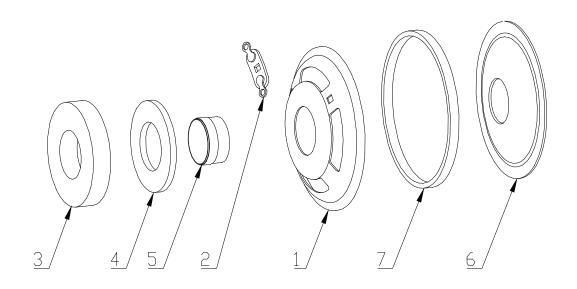
EDITION: B/2017

Soberton Inc.

DIMENSIONS

Tolerance: ±0.5 unit: mm





no	item	material	quantity
1	Frame	1	SPCC
2	PCB Terminal	1	Paper+meter
3	Magnet	1	Ferrite
4	Plate	1	SPCC
5	Voice Coil	1	Paper+Cu
6	Diaphragm	1	Paper
7	Gasket	1	Paper

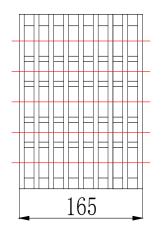


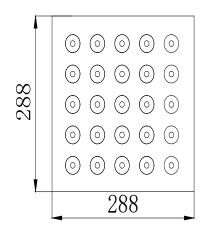
PRODUCT: Dynamic Speaker

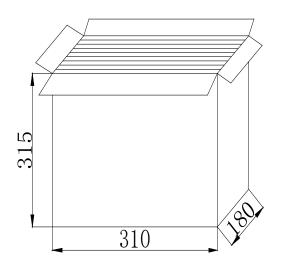
EDITION: B/2017

Soberton Inc.

PACKING







- Each clap board 25pcs
 Each carton 8 pcs clap board 200 pcs/carton
- 2. N.W: 10 KG, G.W:12KG
- 3. Corrugated paper: 290*290mm 1 PCS 4. Carton Size: 310*180*315mm 1 PCS