



MODEL: SP-1508
PRODUCT: Dynamic Speaker
EDITION: A/2016

Soberton Inc.

THIS SPECIFICATION COVERS OUR PRODUCT OF DYNAMIC SPEAKER UNIT FOR MOBILE TELEPHONE USE

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

sound pressure level	85±3dB SPL @0.7,0.8 ,1.0,1.5and2.0KHz in average (0dB SPL=20μPa)
measuring condition	0.1W (Sine wave) 10cm measured with baffler shown in Fig.1
frequency response curve	As shown in Fig. 2
response frequency	700±20%Hz @ 1V in free air 900±20%Hz @ 1V in 1cc box
rated noise power	0.5W (in 1cc box)
short term max. power	0.7W (in 1cc box)
operation test	Must be free of audible noise (buzzes and rattles) (300 ~ 5KHz frequency range, input level up to 2.0Vrms in 1cc box)
distortion	Less than 10% @1KHz,0.1M,0.5W frequency range ,input level up to 0.5W)
ac impedance	7±15%Ω(@1.5KHz 1V) without baffler

GENERAL SPECIFICATIONS

operating temperature range	-20°C ~+60°C	
standard test conditions	temperature	temperature
	relative humidity	45%~80%(RH)
dimension	15 x 8 x 2.6 mm	

RELIABILITY TESTS

The sound pressure as specified shall neither deviate more than ±3dB form the initial value, nor have any significant damage after any of following testing.

HIGH TEMPERATURE TEST

high temperature	+60±2°C
duration	96 hours

LOW TEMPERATURE TEST

low temperature	-20±2°C
duration	96 hours

HEAT SHOCK TEST

high temperature	+60±2°C
low temperature	-20±2°C
changeover time	<30 seconds
duration	1 hour
cycle	100



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RELIABILITY TESTS (Continued)

HUMIDITY TEST

temperature	+ 40±2°C
relative humidity	90%~95%
duration	96 hours

TEMPERATURE CYCLE TEST

temperature	-20°C +60°C
duration	45minutes 45minutes
temperature gradient	1~3°C/min
cycle	25

DROP TEST

mounted with dummy set mass	100 g
height	1.5 m
cycle	6(1 each plain) Onto the concrete board

LOAD TEST

Speaker mode	white noise(EIA filter)for 1 hour@0.5W(in 1CC box) input power
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MEASURING METHOD (SPEAKER MODE)

STANDARD

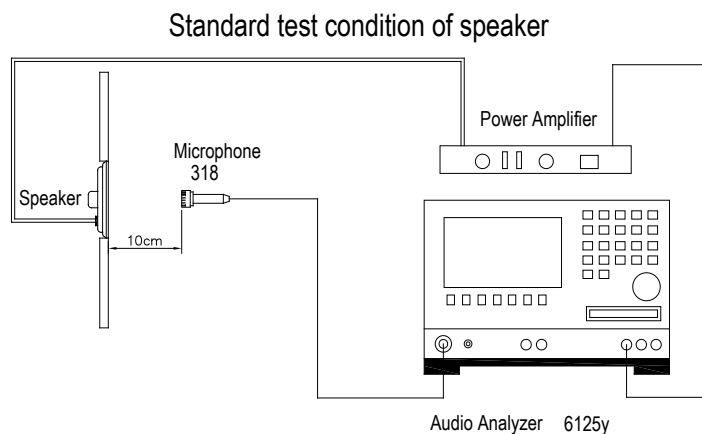
TEST CONDITION

temperature	15 ~ 35°C
relative humidity	45% ~ 85%
atmospheric pressure	860mbar to 1060mbar

STANDARD TEST FIXTURE

input power	0.1W(0.89V)
zero level	-dB
mode	TSR
potentiometer range	50dB
sweep time	0.5sec

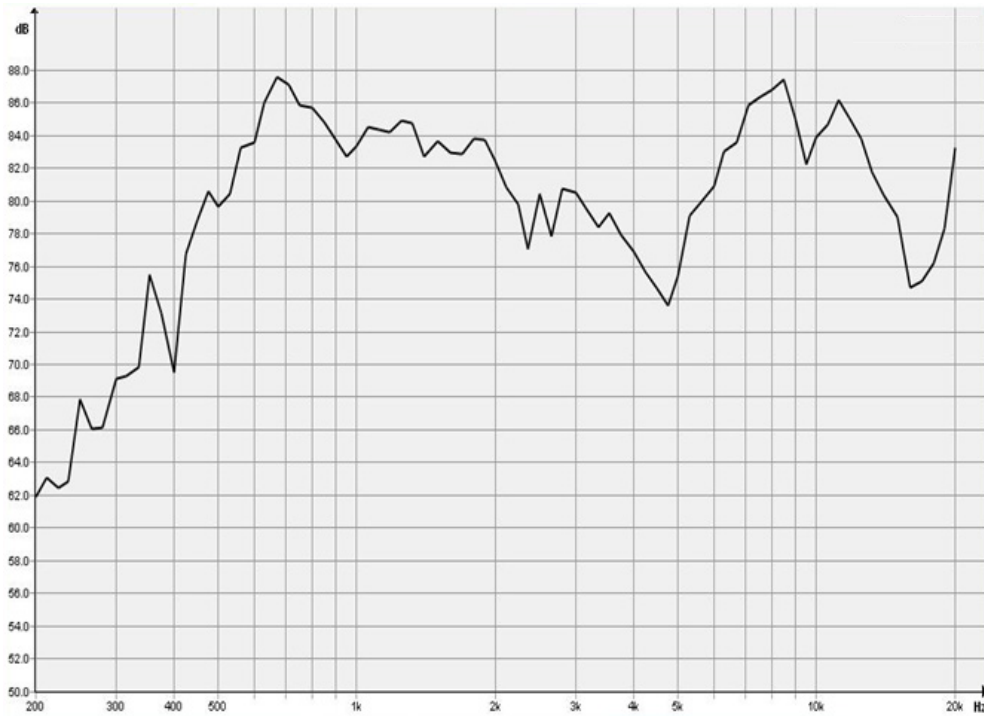
(Fig. 1)





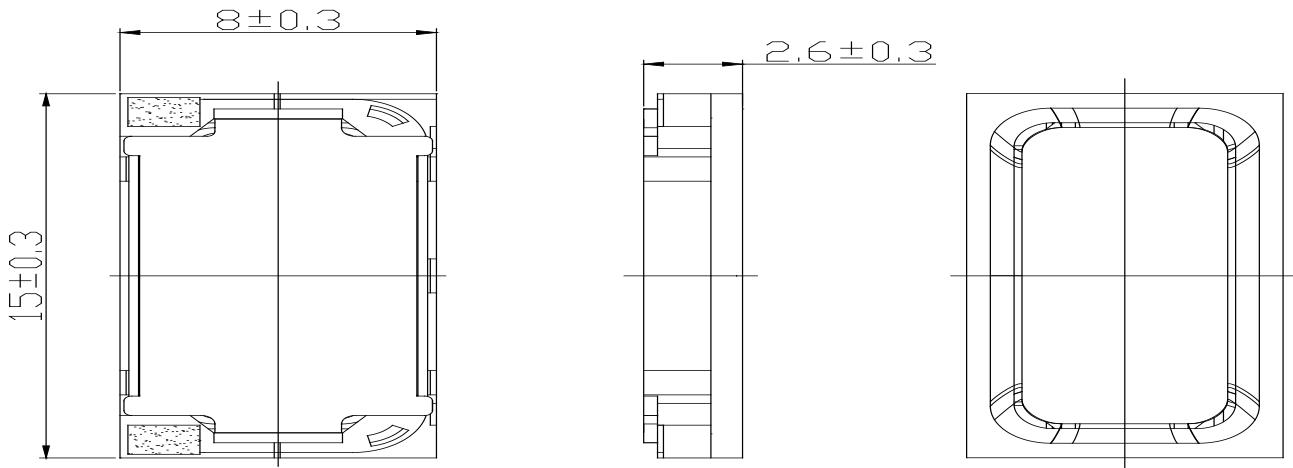
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FREQUENCY RESPONSE CURVE (Fig. 2)



DIMENSIONS

Tolerance:±0.5 (unit: mm)



no.	part name	material	quantity
1	Cap	Scotch ABS	1
2	Diaphragm	PEEK	1
3	Magnet	Nd Fe B10.6*6.6*1.0	1
4	Plate3	SPCC10.65*6.65*0.4	1
5	Voice Coil	POLYURETHANEENAMELLED WIRE 10.95*6.95*1.05	1
6	Frame	BLACK PBT	1
7	Gasket		1

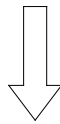
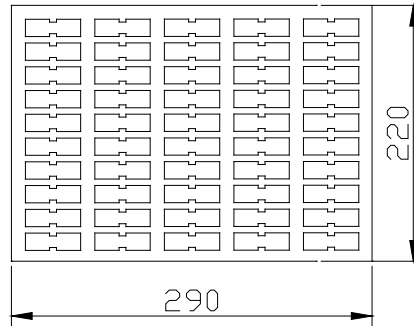


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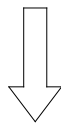
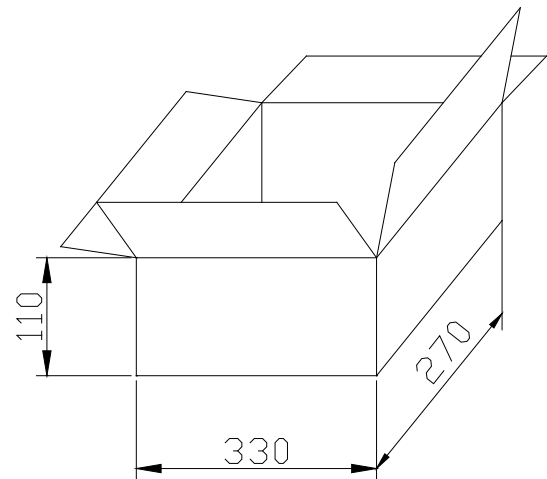
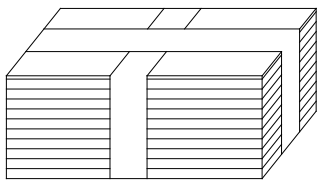
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PACKING

100PCS



100 X 10 = 1000 PCS



1000 X 5 = 5000 PCS

