



MODEL: RC-1506S-1
PRODUCT: Dynamic Receiver
EDITION: A/2016

Soberton Inc.

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

RECEIVER ELECTROACOUSTIC CHARACTERISTICS

test set up	Measuring conditions and procedures shown in Fig. 1
ac impedance	$32 \pm 20\% \Omega$ (@2KHz 1V) without baffle
sound pressure level	113±3dB SPL @1.0KHz Sine Wave 179mV with IEC318(0dB SPL=20μPa)
measuring condition	1mW (Sine wave) with baffle
frequency response curve	As shown in Fig. 2
rated noise power	20mW normal at a white noise (10mW, 200-3.4KHz) for one minute
short term max power	30mW
operation test	Must be of free audible noise (buzzes and rattles) (200 ~ 3.4KHz frequency range, input level up to 0.8Vrms)
distortion	Less than 10% @1KHz 179mV
dimension	15 x 6 x 5.5 mm

GENERAL SPECIFICATIONS

operating temperature range	-20°C ~+60°C
storage temperature range	-30°C~+70°C
standard test conditions	
temperature	17°C ~25°C
relative humidity	45%~80%(RH)

RELIABILITY TESTS

The sound pressure as specified shall neither deviate more than ±3dB from the initial value nor 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

HUMIDITY TEST

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



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RELIABILITY TESTS (Continued)

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@20mW input power
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MEASURING METHOD (SPEAKER MODE)

STANDARD

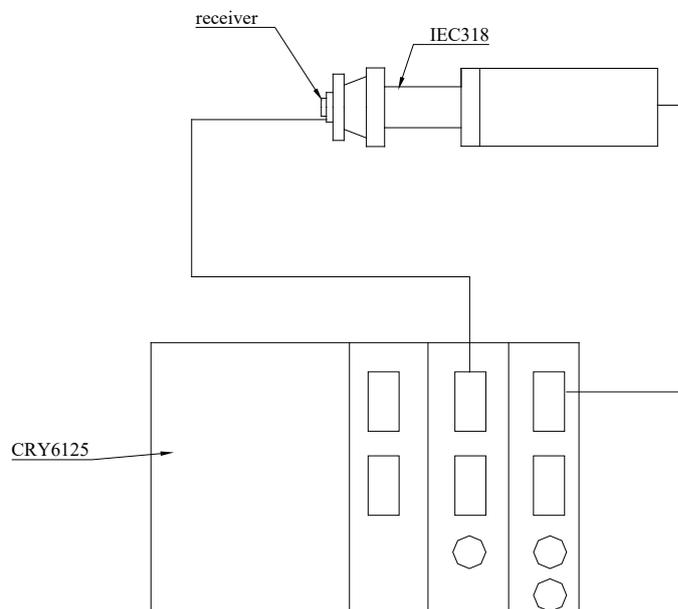
TEST CONDITION

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

STANDARD TEST FIXTURE

input power	179mW
zero level	-dB
mode	TSR
potentiometer range	50dB
sweep time	0.2sec

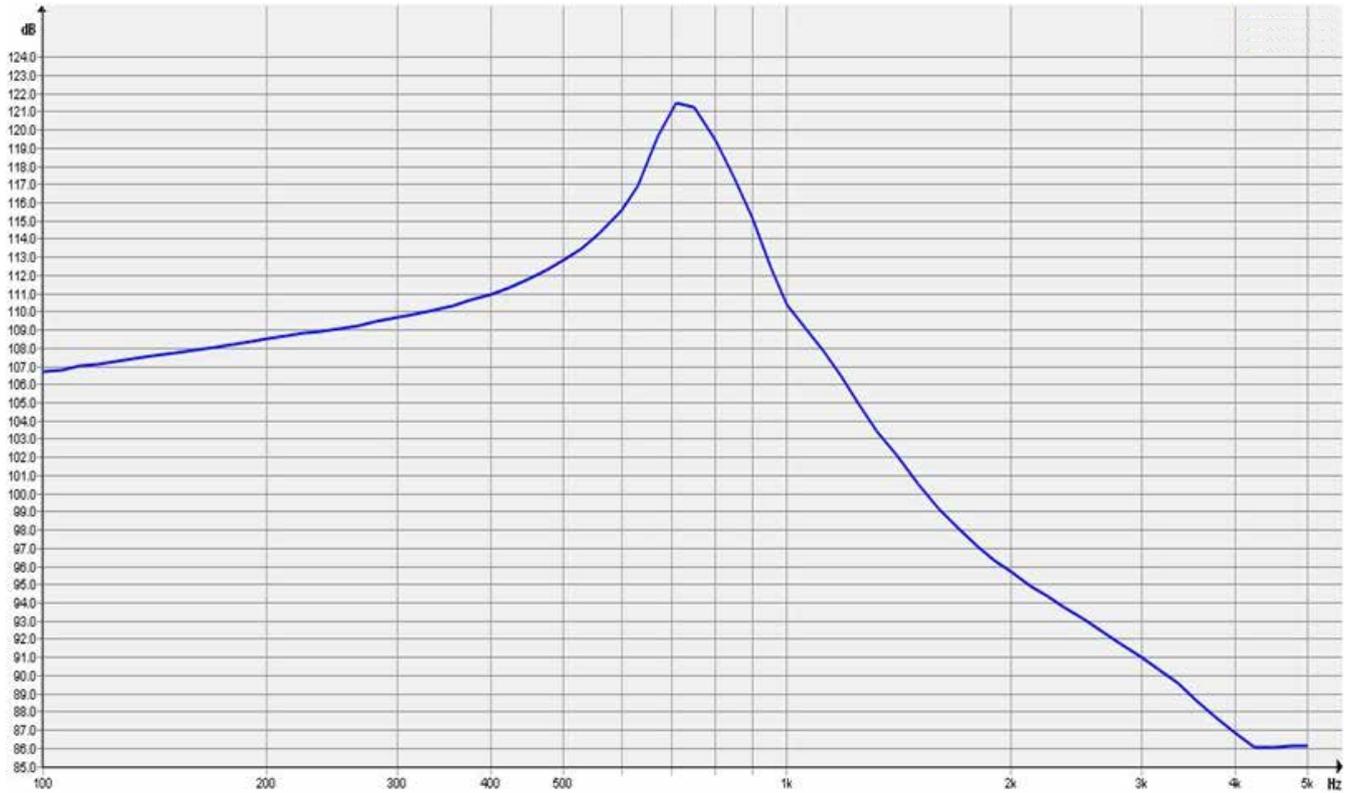
FREQUENCY RESPONSE CURVE (Fig. 1)





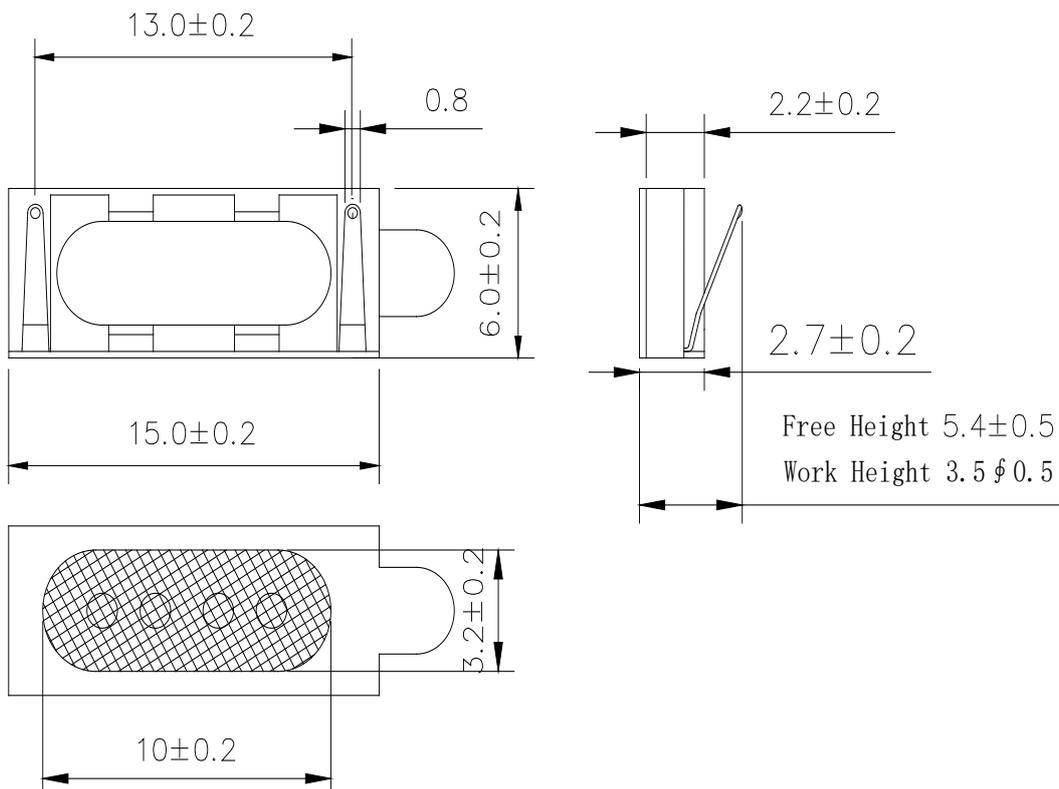
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FREQUENCY RESPONSE CURVE



DIMENSIONS

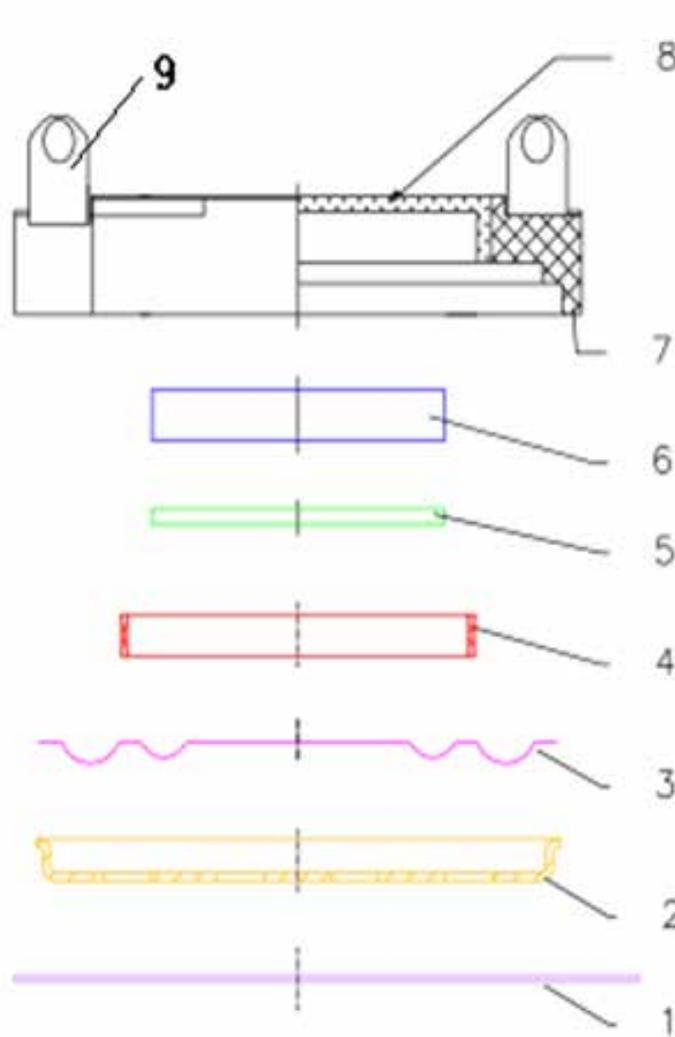
Tolerance: ± 0.5 (unit: mm)





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EXPLODED VIEW

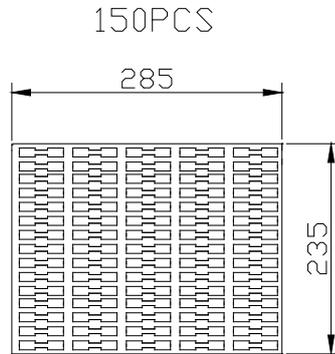


no	item	material	quantity
1	Cap	SUS 304	1
2	Diaphragm	PEI	1
3	Voice Coil	Copper wire	1
4	Plate	SPCC	1
5	Magnet	Nd Fe B	1
6	Frame	PBT	1
7	Yoke	SPCE	1
8	Front Cover	Adhesive	1

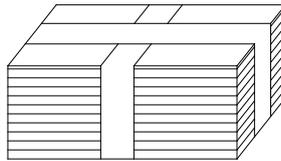


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PACKING



150 X 10 = 1500 PCS



1500 X 5 = 7500 PCS

