imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

	ac impedance	8±15%Ω(@2KHz 1V) without baffler
	sound pressure level	82±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.2.1
		90±3dB SPL @0.7,0.8 ,1.0,1.5and2.0KHz in average (0dB SPL=20μPa)
	measuring condition	0.6W (Sine wave) 10cm measured with baffler shown in Fig. 2.2
	frequency response curve	As shown in Fig. 2.1 and 2.2
	response frequency	650±20%Hz @ 1V in free air
		900±20%Hz @ 1V in 1cc box
	rated noise power	0.5W
	short term max power	0.8W (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,0.1W frequency range ,input level up to 0.1W)
	dimension	15 x 11 x 4.8 mm
-		

GENERAL SPECIFICATIONS

operating temperature range -20°C -	~+60°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 ± 3 dB 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



RELIABILITY TESTS (Continued)

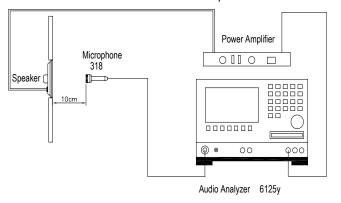
HUMIDITY TEST	
temperature	+ 40±2°C
relative humidity	90%~95%
duration	96 hours
TEMPERATURE CYCLE TES	т
 temperature	-20°C +60°C
duration	45minutes 45minutes
temperature gradient	1~3°C/min
cycle	25
DROP TEST	
 mounted with dummy set	100 g
 mass	
height	1.5 m
 cycle	6(1 each plain) Onto the concrete board
 LOAD TEST	
 Speaker mode	white noise(EIA filter)for 1 hour@0.5W(in 1CC box) input power

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

Standard test condition of speaker







FREQUENCY RESPONSE CURVE (Fig. 2.1)

0.1W/10cm, in free air

30.0-20.0-10.0-

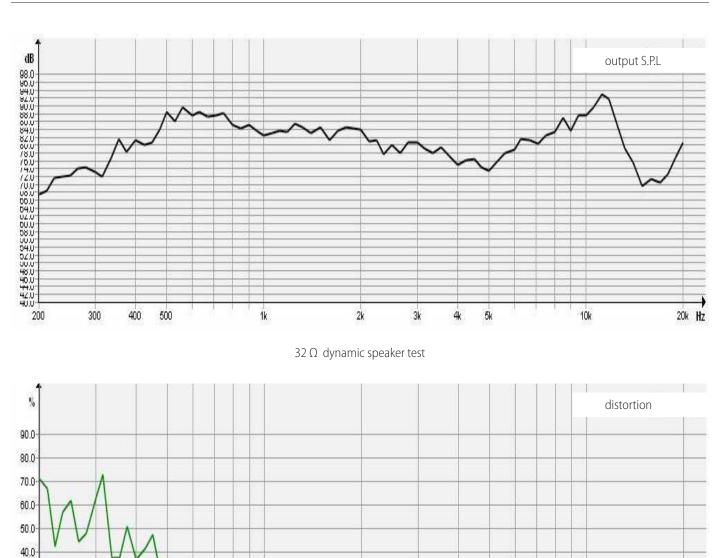
200

300

400

500

1k



2k

3k

5k

4

20k Hz

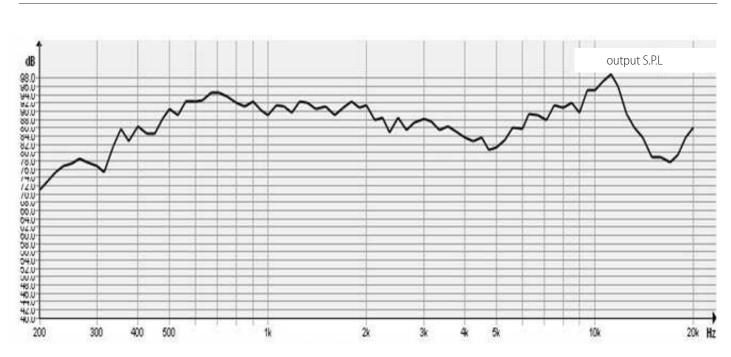
10k



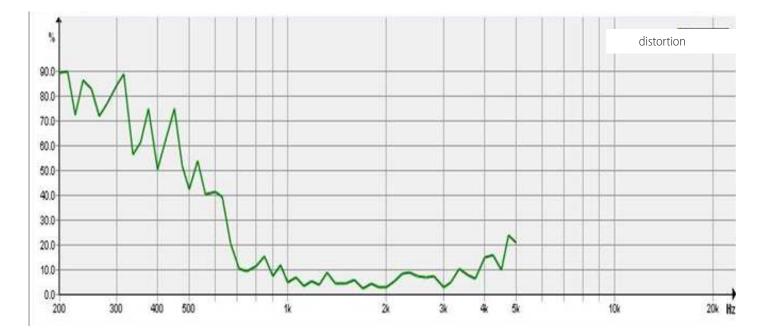


FREQUENCY RESPONSE CURVE (Fig. 2.2)

0.5W/10cm, in free air



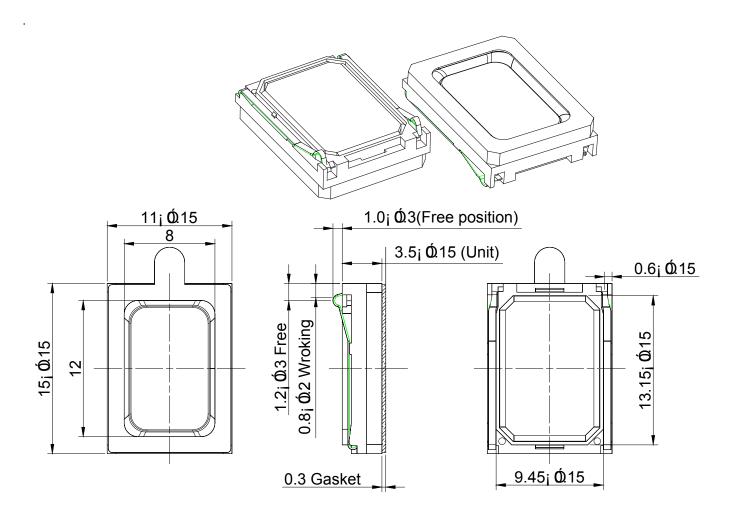
 $^{32\,\}Omega\,$ dynamic speaker test





DIMENSIONS

Tolerance: ±0.5 (unit: mm)



no.	part name	material	quantity
1	Сар	Scotch ABS	1
2	Diaphragm	PEEK	1
3	Magnet	Nd Fe B10.6*6.6*1.1	1
4	Plate3	SPCC 10.65*6.65*0.3	1
5	Voice Coil	Polyurethane enamel	1
		wire 10.95*6.95*1.05	
б	Frame	BLACK PBT	1
7	Gasket	Adhesive 0.3	1





PACKING

