

PRODUCT: Dynamic Speaker

EDITION: A/2016



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	$7\pm15\%\Omega$ (@1.5KHz 1V) without baffler

GENERAL SPECIFICATIONS

operating temperatur	re -20°C ~	+60°C
range		
standard test conditions		
tempe	rature	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 ± 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℃
duration	96 hours
HEAT SHOCK TEST	
high temperature	+60±2°€
low temperature	-20±2℃
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 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	

white noise(EIA filter)for 1 hour@0.5W(in 1CC box) input power

MEASURING METHOD (SPEAKER MODE)

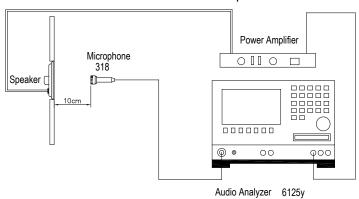
Speaker mode

STANDARD

TEST CONDITION	
temperature	15 ~ 35℃
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)

Standard test condition of speaker



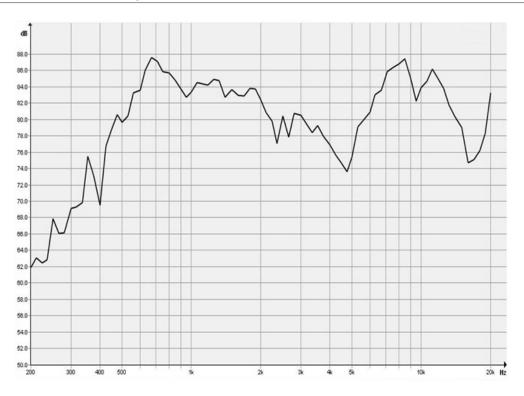


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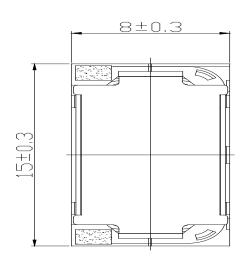
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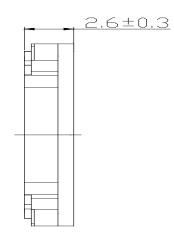
FREQUENCY RESPONSE CURVE (Fig. 2)

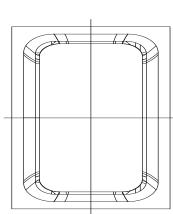


DIMENSIONS

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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PACKING



