

PRODUCT: Dynamic Speaker

EDITION: A/2016

Soberton Inc.

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

DYNAMIC SPEAKER ELECTROACOUSTIC CHARACTERISTICS

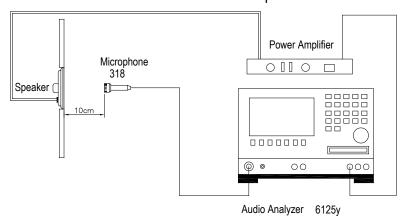
sound pressure level	92±3dB SPL @0.6,1.0,1.5and 2.0KHz in average (0dB SPL=20μPa)
 measuring condition	0.1W (Sine wave)10cm measured with baffler shown in Fig.1
ac impedance	$8\pm15\%\Omega$ (@1KHz 1V) without baffler.
frequency response curve	As shown in Fig.2
response frequency	550±20%Hz @ 1V. (Without Baffler
rated noise power	2.0W
short-term max. power	2.5W must be normal at a white noise (1W, Fo-20KHz) for one
operation test	Must be free of audible noise (buzzes and rattles)
	(300~8KHz frequency range, input level up to 4.0Vrms)
distortion	Less than 10% @1KHz, 5cm, 0.1W frequency range, input level up to 0.1W

GENERAL SPECIFICATIONS

operating te	mperature -20°C ~	+65°C		
range				
standard tes	standard test conditions			
	temperature	17°C ~ 25°C		
	relative humidity	45% ~ 80%(RH)		
dimension	ø 40 x 5.	ōmm		

MEASURING METHOD (SPEAKER MODE) (Figure 1)

Standard test condition of speaker



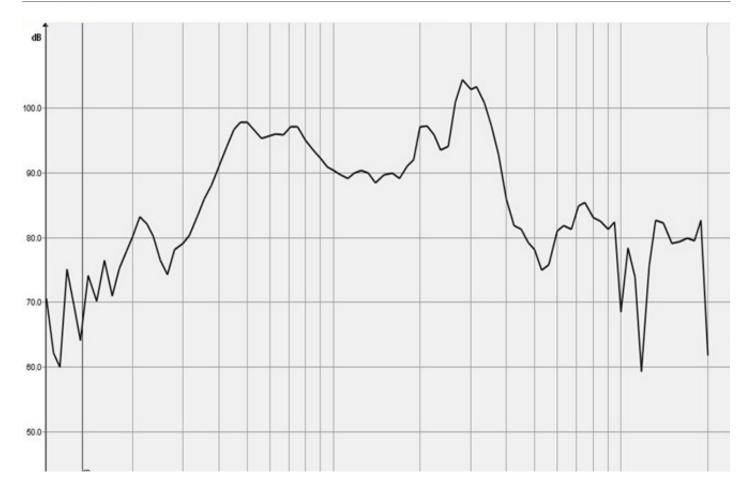
TEST CONDITION				
STANDARD				
temperature	15 ~ 35℃			
relative humdity	45% ~ 85%			
atmospheric pressure	860mbar to 1060mbar.			
STANDARD TEST FIXTURE				
input power	0.1W (0.89V)			
zero level	-dB			
mode	TSR			
potentiometer range	50dB			
sweep time	0.5sec			



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TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





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RELIABILITY TESTS

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

н	GH	TEM	IPFR	ΔΤΙΙ	RF 1	ΓEST
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THOST TERM ENVIRONE TEST				
high temperature	+65±2°C			
duration	96 hours			
LOW TEMPERATURE TEST	LOW TEMPERATURE TEST			
low temperature	-20±2℃			
duration	96 hours			
HEAT SHOCK TEST				
high temperature	+65±2°C			
low temperature	-20±2℃			
duration	1 hour			
changeover time	< 30 seconds			
cycle	100			
HUMIDITY TEST				
temperature	+40±2°C			
 relative humidity	90~95%			
duration	96 hours			
TEMPERATURE CYCLE TES	т			
 temperature	-20°C +65°C			
duration	45 minutes 45 minutes			
 temperature gradient	1~3°C/min.			
 cycle	25			
DROP TEST				
mounted with dummy set	100 g			
 mass	100 y			
 height	1.5 m			
 cycle 6 (1 each plain) onto the concrete board				
 LOAD TEST				
 noise signal	White noise (EIA filter)			
 input power	2.0 W			
 duration	96 hours			

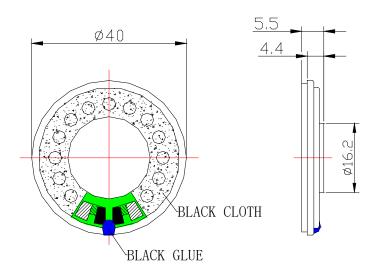


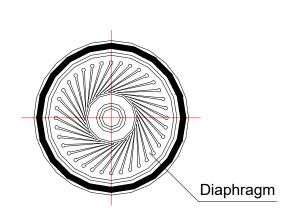


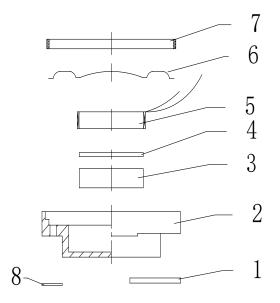
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DIMENSIONS

Tolerance: ±0.5 (unit: mm)







no	item	material	quantity
1	PCB	FR-4	1
2	Frame	SPCC	1
3	Magnet	φ12.5*1.5-N38Nd Fe B	1
4	Plate	φ12.7×0.8 SPCC	1
5	Voice Coil	KSV-13.3-2.4-7.4Ω	1
6	Diaphragm	black PEI	1
7	Gasket	black paper	1
8	Silk Screen	black cloth	1



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PACKING

42 pcs per box 24 units per box Total:1000 pcs per box Size:37×28×28cm

42PCS×24-8=1000PCS

