

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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**MODEL:** SP-1605

**PRODUCT:** Dynamic Speaker

**EDITION:** A/2016



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

#### DYNAMIC SPEAKER ELECTORACOUSTIC CHARACTERISTICS

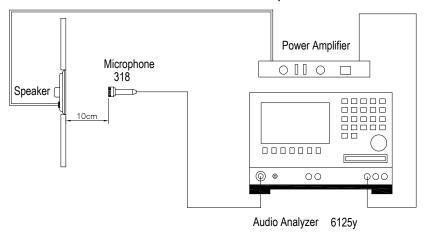
88±3dB SPL @0.8, 1.0, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
0.1W(Sine wave) 10cm measured with baffler shown in Fig.1.
As shown in Fig.2
1000±20%Hz @ 1V. (Without Baffler)
0.5W
0.8W must be normal at a white noise (1W, F0-20KHz) for 1 minute
Less than 10% @1KHz, 0.1M, 0.5W frequency range, input level up to 2.0Vrms
Must be free audible noise (buzzes and rattles)
300 ~ 8KHz frequency range, input level up to 2.0Vrms

#### **GENERAL SPECIFICATIONS**

operating te range	mperature	-20°C ~ +60°C	
standard tes	t conditions		
	temperature	1.	7°C ~ 25°C
	relative humidi	ty 4:	5% ~ 80%(RH)
ac impedano	ce	8±15%Ω (@ 1ŀ	KHz 1V) without baffle
dc resistance	2	30±15%Ω	
dimensions	!	Ø16.0*4.7	

### MEASURING METHOD (SPEAKER MODE) (Figure 1)

# Standard test condition of speaker



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

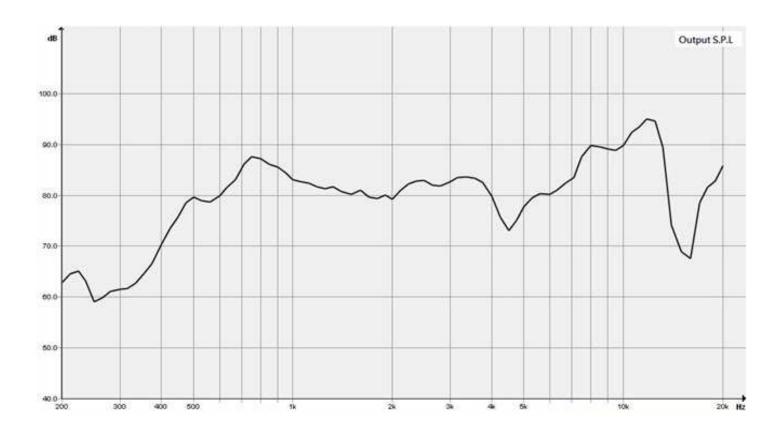


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# TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





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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.

HIGH TE	MDEDATI	IDE TECT

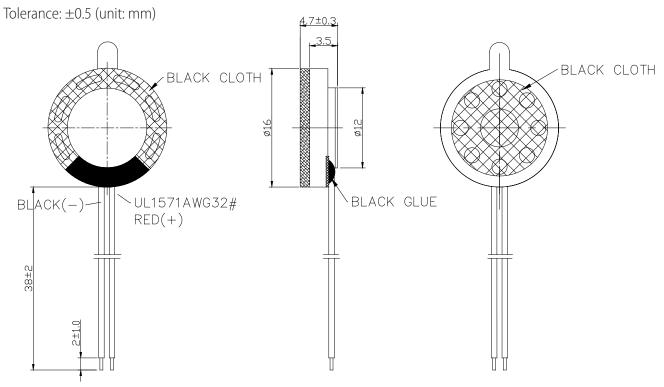
HIGH TEMPERATURE TEST	
high temperature	+60±2°C
duration	96 hours
LOW TEMPERATURE TEST	
 low temperature	-20±2°C
duration	96 hours
HEAT SHOCK TEST	
high temperature	+60±2°C
low temperature	-20±2°C
duration	1 hour
 changeover time	< 30 seconds
cycle	100
 HUMIDITY TEST	
 temperature	+40±2°C
 relative humidity	90~95%
 duration	96 hours
 TEMPERATURE CYCLE TES	Т
 temperature	-20°C +60°C
 duration	45 minutes 45 minutes
 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	
 noise signal	White noise (EIA filter)
 input power	0.5W
 duration	96 hours

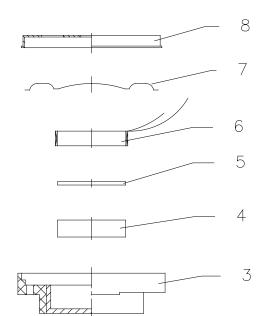


EDITION: A/2016

Soberton Inc.

**DIMENSIONS** 





10\_

2

no	item material		quantity	
1	UL1571 AWG32#	Wire Red/Black	2	
2	PCB	FR-4	1	
3	Frame	PBT	1	
4	Magnet	ND Fe B-N38	1	
5	Plate	SPCC	1	
6	Voice Coil	Copper	1	
7	Membrane	PEN	1	
8	Cap	SUS 304	1	
9	Gasket	Polyester fiber (black cloth)	1	
10	Screen	Black cloth	1	



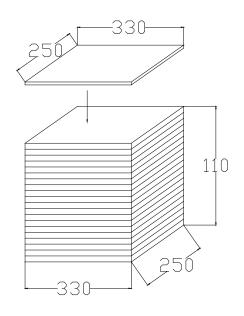
**PRODUCT:** Dynamic Speaker

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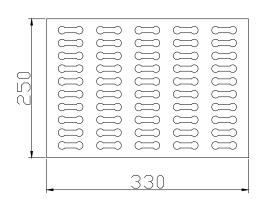
Soberton Inc.

### **PACKING**

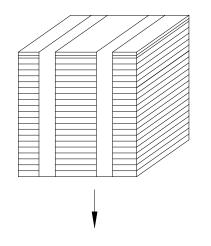
# 100PCS×10=1000PCS



100PCS



100PCS×10=1000PCS



1000PCS×5=5000PCS

