

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









PRODUCT: Dynamic Speaker

EDITION: A/2016



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

DYNAMIC SPEAKER ELECTORACOUSTIC CHARACTERISTICS

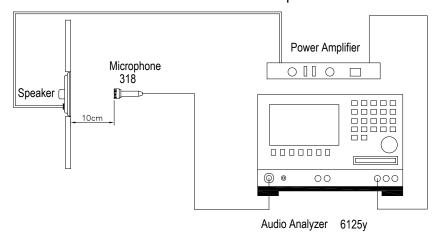
sound pressure level	93±3dB SPL @0.8, 1.0, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
measuring condition	0.1W(Sine wave) 10cm measured with baffler
frequency response curve	As shown in Fig.2
response frequency	1000±20%Hz @ 1V. (Without Baffler)
rated noise power	0.5W
short-term max. power	0.8W must be normal at a white noise (1W, F0-20KHz) for 1 minute
distortion	Less than 10% @1KHz, 0.1M, 0.5W frequency range, input level up to 2.0Vrms
operation test	Must be free audible noise (buzzes and ratles)
	300 ~ 8KHz frequency range, input level up to 2.0Vrms

GENERAL SPECIFICATIONS

operatin	operating temperature -20°C ~ +60°C			
range				
standard	test conditions			
	temperature		17°C ~ 25°C	
	relative hum	idity	45% ~ 80%(RH)	
ac imped	dance	8±15%Ω (@	1KHz 1V) without baffler	
dimensi	ons	Ø15.0*5.7		

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 FIXTURE		
input power	0.1W (0.89V)	
zero level	-dB	
mode	TSR	
potentiometer range	50dB	
sweep time	0.5sec	

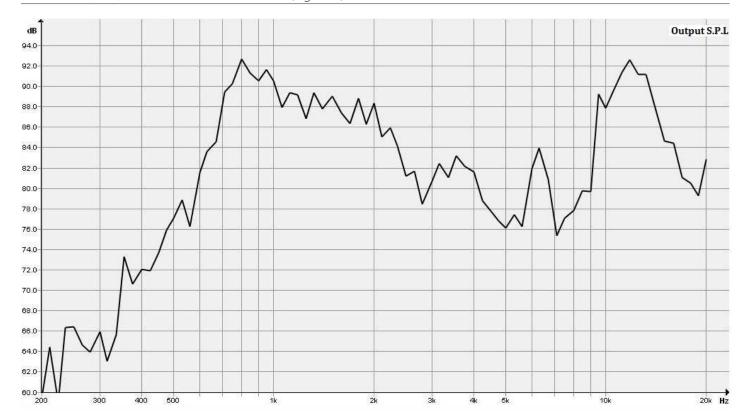


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Soberton Inc.

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	TEMP	JRF TFS1	Г

THOST TERM ENVIRONE TEST		
high temperature	+60±2℃	
duration	96 hours	
LOW TEMPERATURE TEST		
low temperature	-20±2℃	
duration	96 hours	
HEAT SHOCK TEST		
high temperature	+60±2°C	
 low temperature	-20±2℃	
duration	1 hour	
changeover time	< 30 seconds	
cycle	100	
HUMIDITY TEST		
temperature	+40±2℃	
 relative humidity	90~95%	
duration	96 hours	
 TEMPERATURE CYCLE TEST		
 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	100 g	
 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	

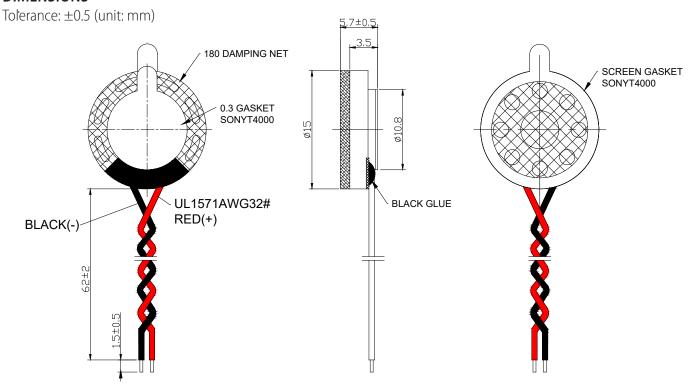


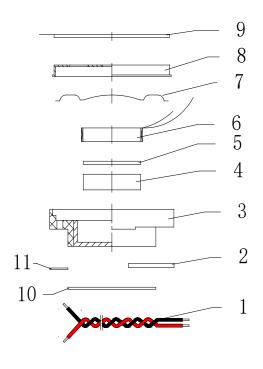


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DIMENSIONS





no	item	material	quantity
1	UL1571 AWG32#	Wire Red/Black	2
2	PCB	Epoxy glass fiber + Copper	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	Screen gasket	Polyester fiber	
10	Gasket	Polyester fiber + double faced	1
		adhesive tape	
11	Damping net	Non-woven fabrics	1





EDITION: A/2016

PACKING

