

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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PRODUCT: Dynamic Speaker

EDITION: A/2016

Soberton Inc.

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

DYNAMIC SPEAKER ELECTORACOUSTIC CHARACTERISTICS

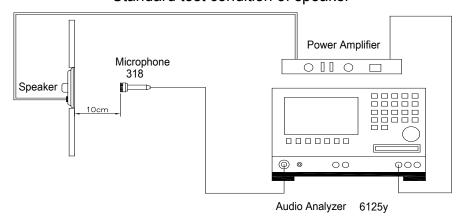
sound pressure level	88±3dB SPL @0.8, 1.0, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
measuring condition	0.1W(Sine wave) 10cm measured with baffler shown in Fig.1
frequency response curve	As shown in Fig.2
response frequency	900±20%Hz @ 1V. (without baffler)
rated noise power	0.2W
short-term max. power	0.3W must be normal at a white noise (1W, F0-20KHz) for 1 minute
 distortion	Less than 10% @1KHz, 0.1M, 0.2W frequency range, input level up to 2.53Vrms
operation test	Must be free audible noise (buzzes and rattles)
	$300 \sim 8 \text{KHz}$ frequency range, input level up to 2.53Vrms

GENERAL SPECIFICATIONS

operating te range	mperature -20	°C ~ +60°C
standard tes	t conditions	
	temperature	17°C ~ 25°C
	relative humidity	45% ~ 80%(RH)
ac impedano	ce 32±	±15%Ω (@2KHz 1V) without baffle
dc resistance	30±	±15%Ω
dimensions	Ø13	3.0*4.3

MEASURING METHOD (SPEAKER MODE) (Figure 1)

Standard test condition of speaker



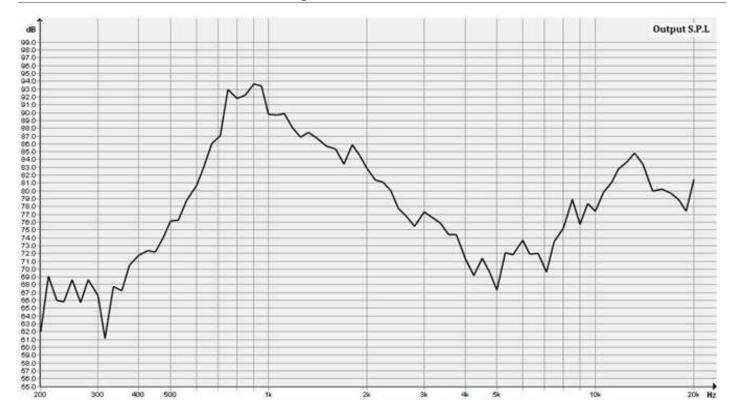
TEST CONDITION			
STANDARD			
temperature	15 ~ 35℃		
relative humdity	45% ~ 85%		
atmospheric pressure	860mbar to 1060mbar.		
STANDARD TEST FIXTURE			
input power	0.1W (1.789V)		
zero level	-dB		
mode	TSR		
potentiometer range	50dB		
sweep time	0.5sec		



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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 ± 3 dB from the initial value, nor have any significant damage after any of following testing.

н	GH	TEM	IPFR	ΔΤΙΙ	RF 1	ΓEST
п	шп	I CIV	IFEN	AIU	ne I	IEJI

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	0.2W
duration	96 hours

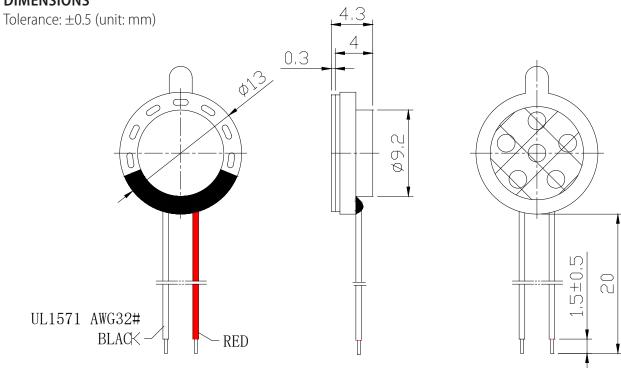


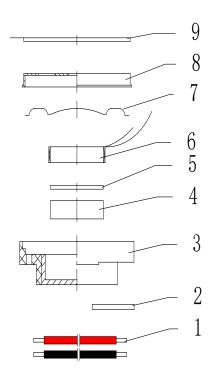


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no	item	material	quantity
1	UL1571 AWG32#	Wire Red/Black	2
2	PCB	Epoxy glass fiber + Copper	1
3	Frame	PBT	1
4	Magnet	ND Fe B-N38	1
5	Plate	SPCC	1
6	Voice Coil	Copper	1
7	Membrane	PEN	1
8	Сар	SUS 304	1
9	Gasket	Polyester fiber	1



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PACKING

