

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



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

DYNAMIC SPEAKER ELECTROACOUSTIC CHARACTERISTICS

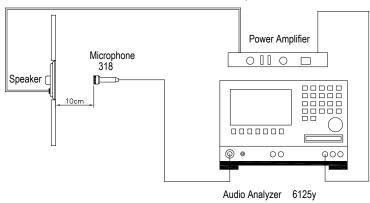
sound pressure level	90±3dB SPL @ 0.6, 0.8, 1.0, 1.2, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
measuring condition	0.1W (Sine wave) 10cm measured with baffler shown in Fig.1
ac impedance	8±15% Ω (@ 2 KHz 1V) without baffler
frequency response curve	As shown in Fig.2
response frequency	550 ± 20%Hz @ 1V. (Without Baffler)
rated noise power	1W
short-term max. power	1.5W must be normal at a white noise (1W, F ₀ -20KHz) for 1 minute
 operation test	Must be free audible noise (buzzes and rattles)
	(300 ~5KHz frequency range, input level up to 2.83Vrms)
distortion	Less than 5% @1KHz , 0.1M , 0.1W frequency range, input level up to 0.1W
dimension	ø36 x 5.0mm

GENERAL SPECIFICATIONS

operating tem	perature -20°C ~	e -20°C ~ +60°C		
range				
standard test of	standard test conditions			
	temperature	17°C ~ 25°C		
	relative humidity	45% ~ 80%(RH)		

MEASURING METHOD (SPEAKER MODE) (Figure 1)

Standard test condition of speaker



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

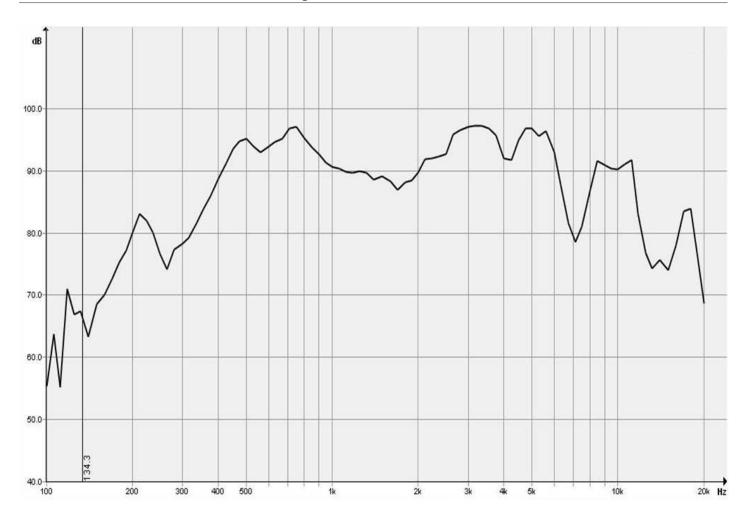


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TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





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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.

ПСП	TFMPFR	ATLIDE	TECT

THOST TENT ENVIONE TEST			
high temperature	+60±2°C		
duration	96 hours		
LOW TEMPERATURE TEST	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 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	1W		
 duration	1 hour		



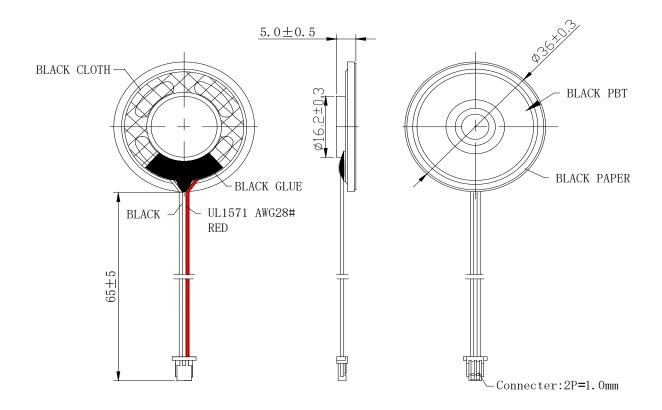
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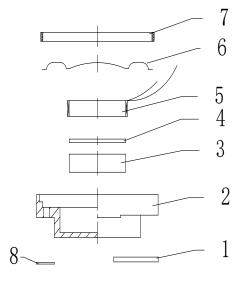
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DIMENSIONS

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*0.8SPCC	1
5	Voice Coil	13.3-2.4-7.4Ω	1
6	Diaphragm	black PET	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

