

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

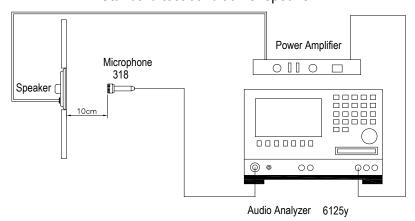
sound pressure level	85±3dB SPL @1.0, 1.2, 1.5 and 2.0K Hz in average (0dB SPL=20μPa)
measuring condition	0.1W (Sine wave) 10cm measured with baffler shown in Fig.1
frequency response curve	As shown in Fig.2
response frequency	1000 ± 20% Hz @ 1V. (Without Baffler)
rated noise power	0.5W
short-term max. power	0.8W must be normal at a white noise (1W, F ₀ -20KHz) for 1 minute
distortion	Less than 10% @1KHz , 0.1M , 0.1W frequency range, input level up to 0.1W
 impedance ac	8 ± 15 % Ω (@ 2 KHz 1V) without baffler
operation test	Must be free of audible noise (buzzes and rattles)
	300 ~ 8KHz frequency range, input level up to 0.2Vrms

GENERAL SPECIFICATIONS

operating ter	mperature -20°C ~	+60°C	
range			
storage temp	storage temperature range -30°C ~ +70°C		
standard test	standard test conditions		
	temperature	17°C ~ 25°C	
	relative humidity	45% ~ 80%(RH)	
dimension	15x10x3	.9mm	

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			

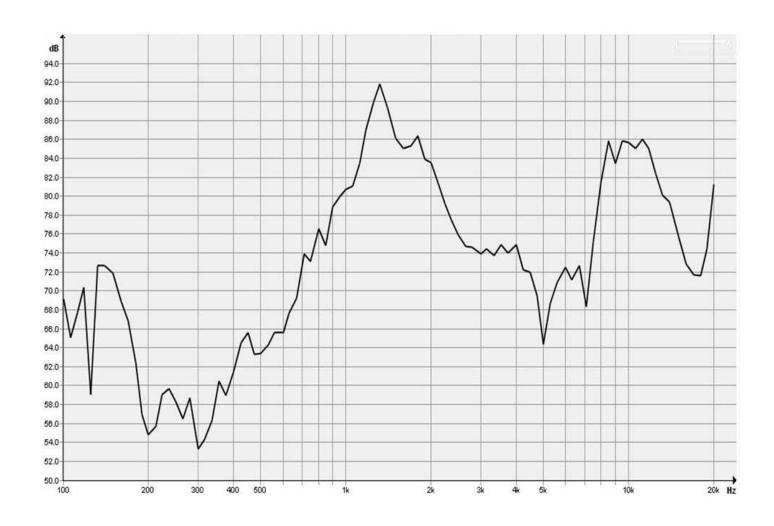


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TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





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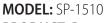


RELIABILITY TESTS

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.

HIGH	TEM	DED	ATII	DET	TECT
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HIGH TEMPERATURE 1EST	
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°C
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



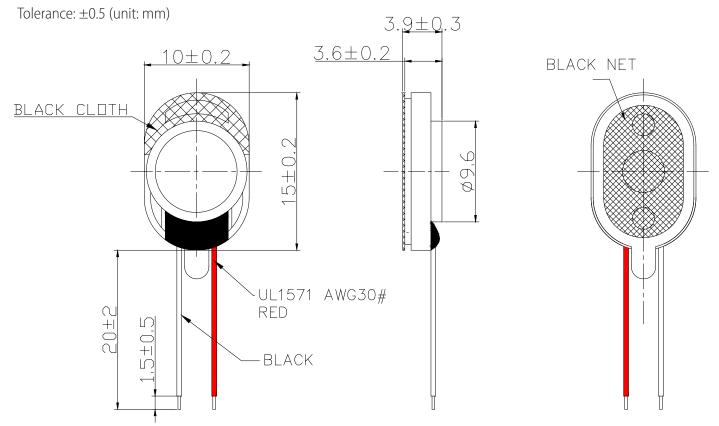


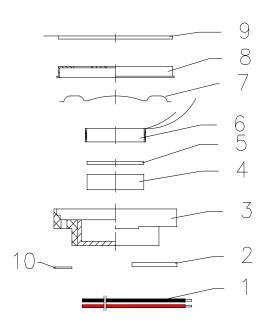
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DIMENSIONS





no	item	material	quantity
1	UL1571 AWG30#	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	PET	1
8	Сар	Stainless steel	1
9	Gasket	black cloth	1
10	Screen	black cloth	1



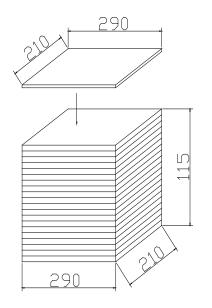
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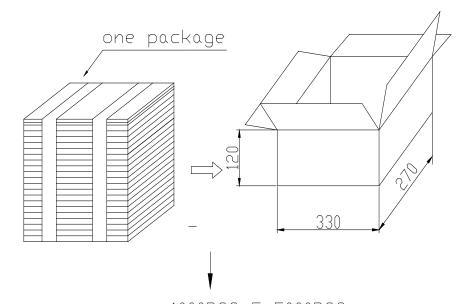
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PACKING

100PCS×10=1000PCS





1000PCS×5=5000PCS

