

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

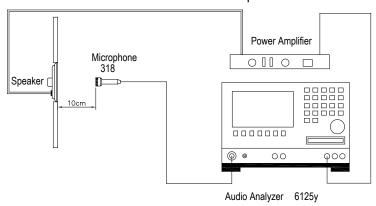
sound pressure level	91±3dB SPL @0.8, 1.0, 1.5 and 2.0KHz in average (0dB SPL=20μPa)
measuring condition	1W (Sine wave) 10cm measured with baffler shown in Fig.1
ac impedance	8±15% Ω (@ 2 KHz 1V) without baffler
frequency response c	urve As shown in Fig.2
response frequency	600 ± 20%Hz @ 1V. (Without Baffler)
rated noise power	0.3W
short-term max. pow	o.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 ~8KHz frequency range ,input level up to 1.6Vrms
distortion	Less than 10% @1KHz , 0.1M , 0.1W frequency range, input level up to 0.1W

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℃ ~ 25℃			
	relative humidity	45% ~ 80%(RH)			
dimension	ø28 x 5.4	łmm			

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	

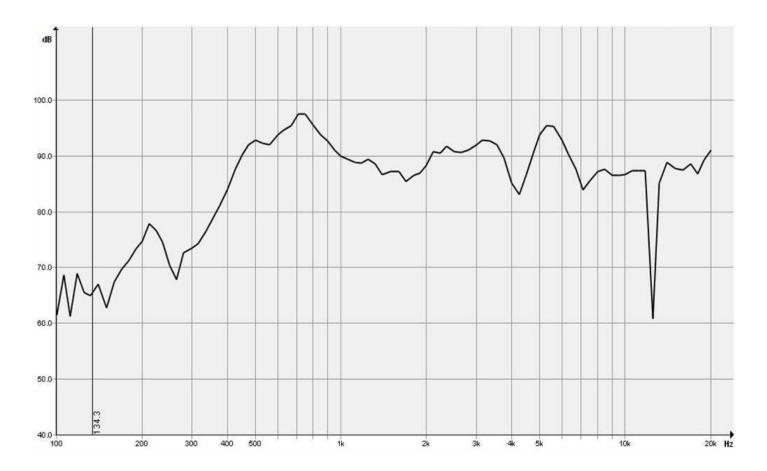


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TYPICAL FREQUENCY RESPONSE CURVE (Figure 2)





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RELIABILITY TESTS

The sound pressure as specified shall neither deviate more than ± 3 dB from the initial value, nor have any significant damage after any of following testing.

ПСП	TFMPFR	ATLIDE	TECT

HIGH TEMPERATURE 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	+20±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		
 height	1.5 m	
 cycle	6 (1 each plain) onto the concrete board	
LOAD TEST		
 noise signal	White noise (EIA filter)	
input power	0.3W	
duration	96 hours	



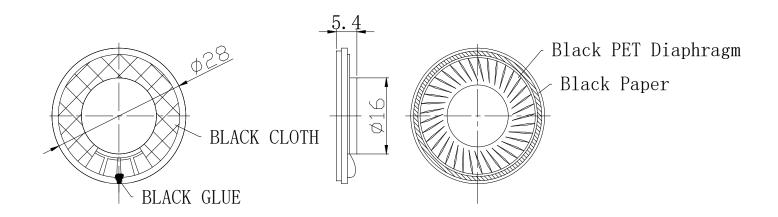
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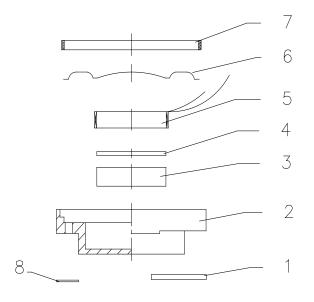
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DIMENSIONS

Tolerance: ±0.5 (unit: mm)





no	item	material	quantity
1	PCB	FR-4	1
2	Frame	SPCC	1
3	Main Magnet	Φ12.5×1.5-N38	1
4	Plate	φ12.7×0.8 SPCC	1
5	Voice Coil	Copper	1
6	Diaphragm	PET	1
7	Gasket	black paper	1
8	Silk Screen	black cloth	1

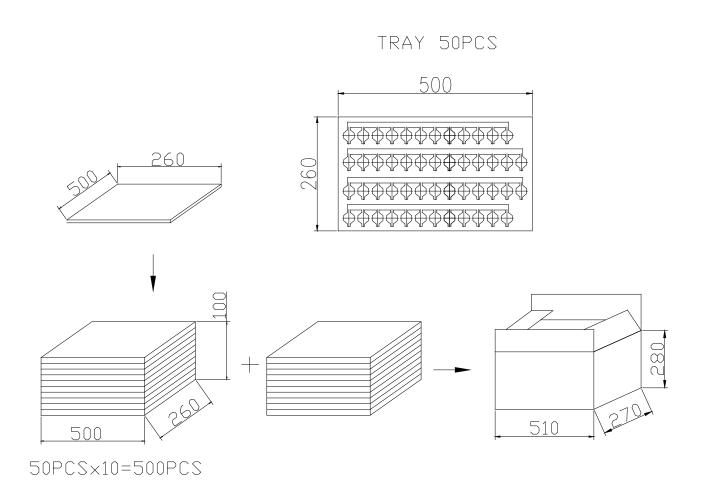


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PACKING



TRAY	500X260X10mm	1X50PCS=50PCS
CARTON BOX	510X270X280mm	20X50PCS=1000PCS