

PRODUCT: Dynamic Speaker

EDITION: A/2016



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

DYNAMIC SPEAKER ELECTROACOUSTIC CHARACTERISTICS

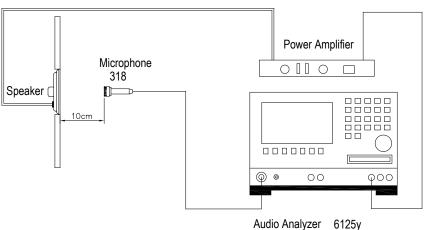
	sound pressure level 90±3dB SPL @ 0.8, 1.0, 1.2 and 1.5KHz in average (0dB SPL=20μPa)	
measuring condition 0.1W (Sine wave) 10cm measured with baffler shown in Fig.1		0.1W (Sine wave) 10cm measured with baffler shown in Fig.1
	frequency response curve As shown in Fig.2 response frequency 550 ± 20%Hz @ 1V. (Without Baffler)	
rated noise power 0.5W		0.5W
	short-term max. power 0.6W must be normal at a white noise (1W, F0-20KHz) for one minute	
	distortion Less than 5% @1KHz, 0.1M , 1W frequency range, input level up to 2.0Vrms	
	ac impedance $8\pm15\%\Omega$ (@ 2 KHz 1V) without baffler	
	operation test	Must be free audible noise (buzzes and rattles)
		300 ~8KHz frequency range, input level up to 2.0Vrms

GENERAL SPECIFICATIONS

operating ter	mperature -20°C ~	+60℃
range		
storage temp	oerature range -30°C ~	+70°C
standard test	conditions	
	temperature	17°C ~ 25°C
	relative humidity	45% ~ 80%(RH)
dimension	ø 26 x 5.0	0mm

MEASURING METHOD (SPEAKER MODE) (Figure 1)

Standard test condition of speaker



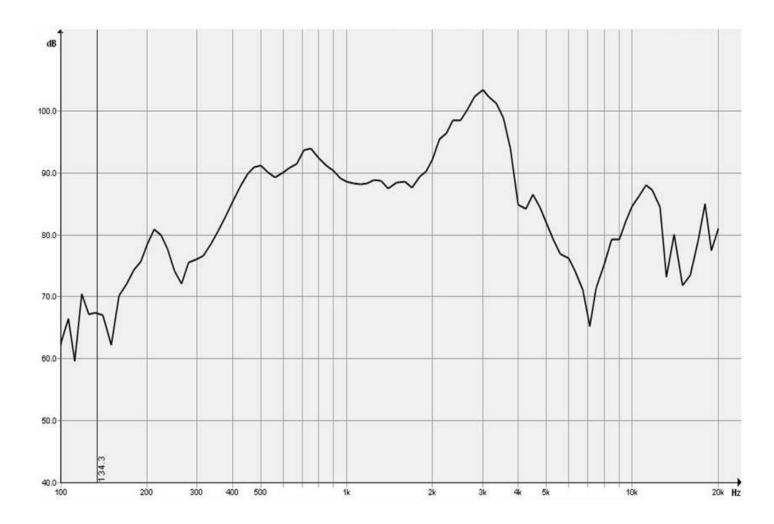
TEST CONDITION		
STANDARD		
temperature	15 ~ 35°C	
relative humdity	45% ~ 85%	
atmospheric pressure	860mbar to 1060mbar.	
STANDARD TEST FIXTURE		
input power	0.1W (0.89V)	
zero level	-dB	
mode	TSR	
potentiometer range	50dB	
sweep time	0.5sec	



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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.

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HIGH TEMPERATURE TEST		
high temperature	+60±2℃	
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℃	
duration	1 hour	
changeover time	< 30 seconds	
 cycle	100	
HUMIDITY TEST		
temperature	+20±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	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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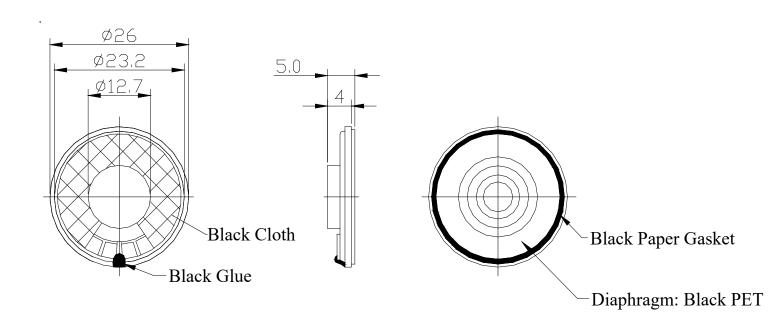
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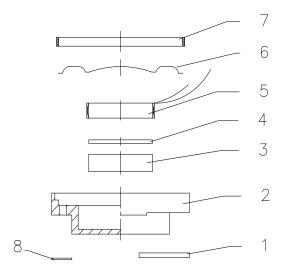
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DIMENSIONS

Tolerance: ±0.5 (unit: mm)





no	item	material	quantity
1	PCB	FR-4	1
2	Frame	SPCC	1
3	Main magnet	Φ9.5×1.5-N38	1
4	Plate	Φ9.7×0.8SPCC	1
5	Voice coil	Copper	1
6	Diaphragm	PET	1
7	Gasket	Black paper	1
8	Silk screen	Black cloth	1

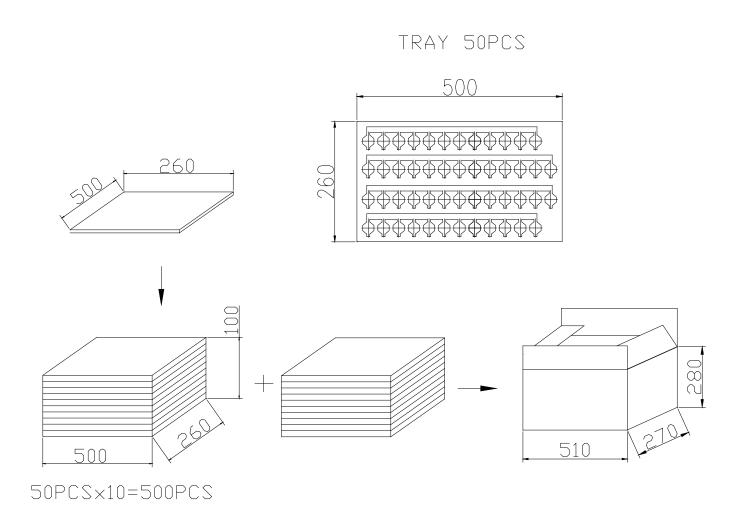


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PACKING



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