

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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Soberton Inc.

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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

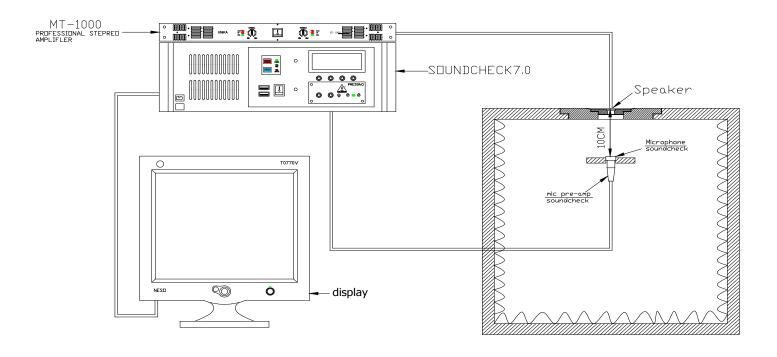
sound pressure level	82±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measuring diagram	Shown in Fig.1
typical frequency response	Shown in Fig.2.
 curve	
rated noise power	0.5W (In 1CC Box)
short-term max. power	0.7W (In 1CC Box)
distortion	Less than 10% at 1KHz 1V
operation test	Must be free of audible noise (buzzes and rattles) (200 ~ 3400Hz frequency range, input level up to 2.0Vrms (In 1CC BOX))

GENERAL SPECIFICATIONS

operating temperature	-25°C ~ +65°C
range	
storage temperature range	-40°C ~ +75°C
ac impedance	8.0Ω±15% (@2KHz 1Vrms)
dimension	16 x 9 x 5.2 mm

TYPICAL FREQUENCY RESPONSE CURVE

FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.1)

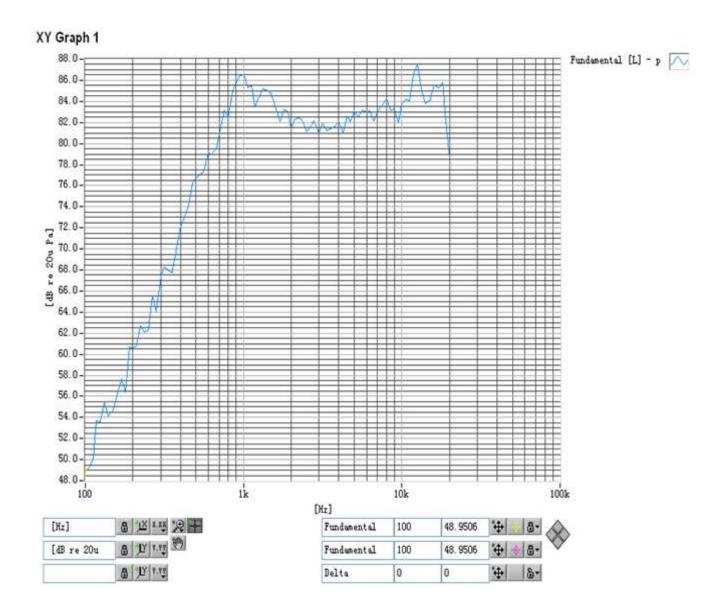




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TYPICAL FREQUENCY RESPONSE CURVE (Continued)

TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig.2)



TEST CLIMATIC CONDITIONS			
STANDARD TEST CONDI	STANDARD TEST CONDITIONS		
temperature	17~25℃		
relative humidity	45%~80%(RH)		
air pressure	860~1060 hPa		



MODEL: SP-1609S-1

PRODUCT: Dynamic Speaker

EDITION: A/2016

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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.

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

	FIGHTEINFERATURE (ES)		
	high temperature	+75±2℃	
	duration	96 hours	
	LOW TEMPERATURE TEST		
	low temperature	-25±2℃	
	duration	96 hours	
	HEAT SHOCK TEST (See in	Fig.3)	
	high temperature	+75±2℃	
	low temperature	-40±2℃	
	duration	1 hour (high), 1 hour (low)	
	changeover time	< 30 seconds	
	cycle	10	
	HUMIDITY TEST		
	temperature	+40±2℃	
	relative humidity	90~95%	
	duration	48 hours	
	TEMPERATURE CYCLE TES	ST (See in Fig.4)	
	temperature	-40°C +75°C	
	duration	45 minutes 45 minutes	
	temperature gradient	1~3°C/min.	
	cycle	10	
	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 (1CC BOX) (2.37Vrms)	
	duration	96 hours	



PRODUCT: Dynamic Speaker

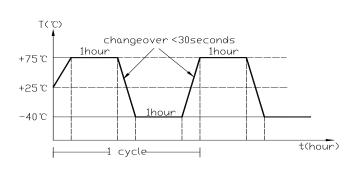
EDITION: A/2016

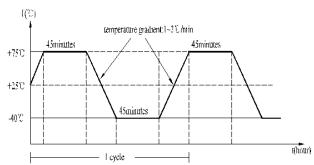
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TEST METHOD

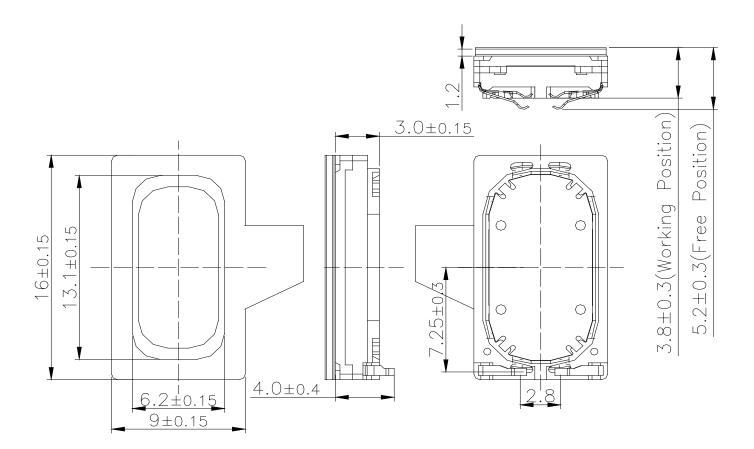
HEAT SHOCK TEST (Fig.3)

TEMP. CYCLE TEST (Fig.4)





PRODUCT EXTERNAL VIEW AND DIMENSIONS (Fig.5)



no	item	material	quantity
1	Magnet	Nd-Fe-B	1
2	U-Yoke	Iron	1
3	Pole Piece	Iron	1
4	Voice coil	Copper	1
5	Frame	PPA	1
6	Gasket	PE	1





EDITION: A/2016

PACKING

