imall

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!



Contact us

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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

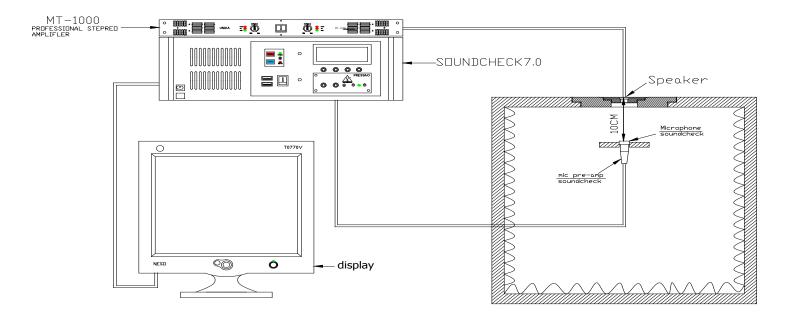
sound p	ressure level	82±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance	ce frequency (FO)	950±20%Hz @ 1Vrms. (In 1CC BOX)
measurir	ng diagram	Shown in Fig.1
typical fr	equency response	Shown in Fig.2.
curve		
rated no	ise power	0.7W (In 1CC Box)
short-ter	m max.power	1.0W (In 1CC Box)
distortio	n	Less than 10% at 1KHz 1V
operatio	n test	Must be free of audible noise (buzzes and rattles) (200 ~ 3400Hz frequency range, input level up to 2.37Vrms (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	15 x 11 x 3.9 mm

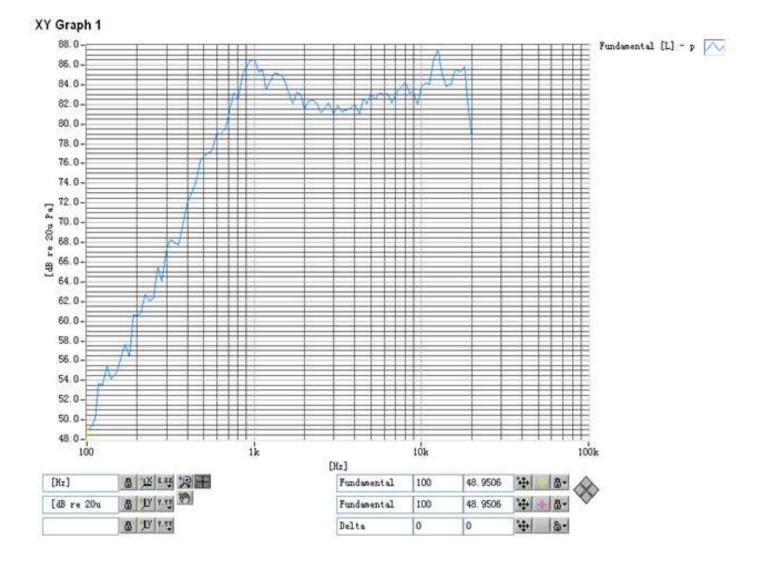
TYPICAL FREQUENCY RESPONSE CURVE

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





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



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



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.

	HIGH TEMPERATURE TEST					
	high temperature	+75±2°C				
	duration	96 hours				
	LOW TEMPERATURE TEST					
	low temperature	-25±2°C				
	duration	96 hours				
	HEAT SHOCK TEST (See in	HEAT SHOCK TEST (See in Fig.3)				
	high temperature	+75±2°C				
	low temperature	-40±2°C				
	changeover time	< 30 seconds				
	duration	1 hour				
	cycle	10				
	HUMIDITY TEST					
	temperature	+40±2°C				
	relative humidity	90~95%				
	duration	48 hours				
	TEMPERATURE CYCLE TES	TEMPERATURE CYCLE TEST (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 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	0.7W (1CC BOX) (2.37Vrms)				
	duration	96 hours				
-						



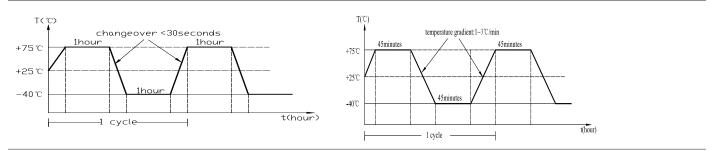
MODEL: SP-1511S-4 PRODUCT: Dynamic Speaker EDITION: A/2016



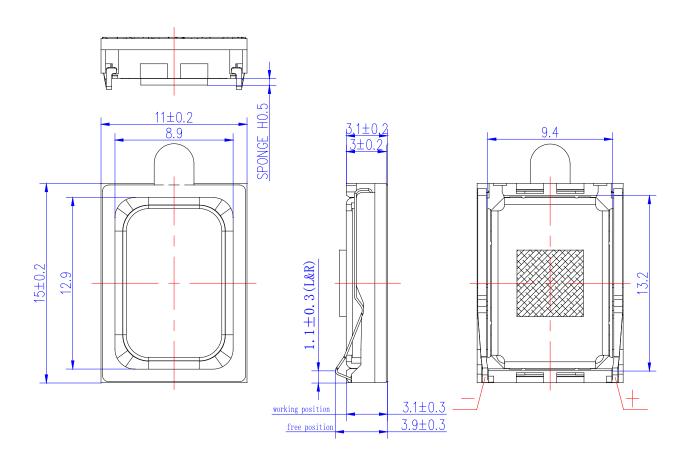
TEST METHOD



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



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PACKING

