

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



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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

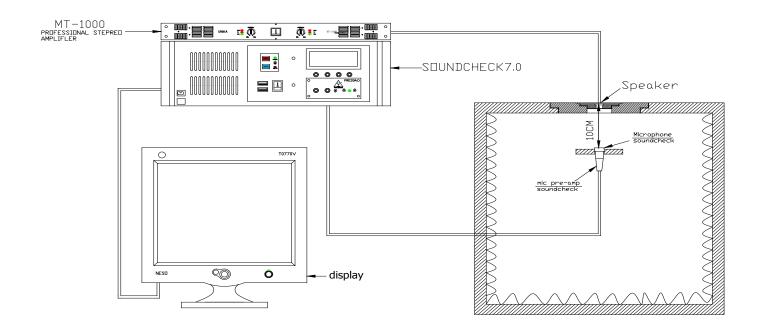
sound pre	ssure level	92±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance	frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measurin	g diagram	Shown in Fig.1
typical fre	quency response	Shown in Fig.2.
curve		
rated nois	e power	0.7W (In 1CC Box)
short-terr	n max. power	1.0W (In 1CC Box)
distortion		Less than 10% at 1KHz 1V
operation	test	Must be free of audible noise (buzzes and rattles) (200 ~ 5000Hz 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 ~ +85°C
ac impedance	8.0Ω±15% (@2KHz 1Vrms)
dimension	16 x 9 x 4.3 mm

TYPICAL FREQUENCY RESPONSE CURVE

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

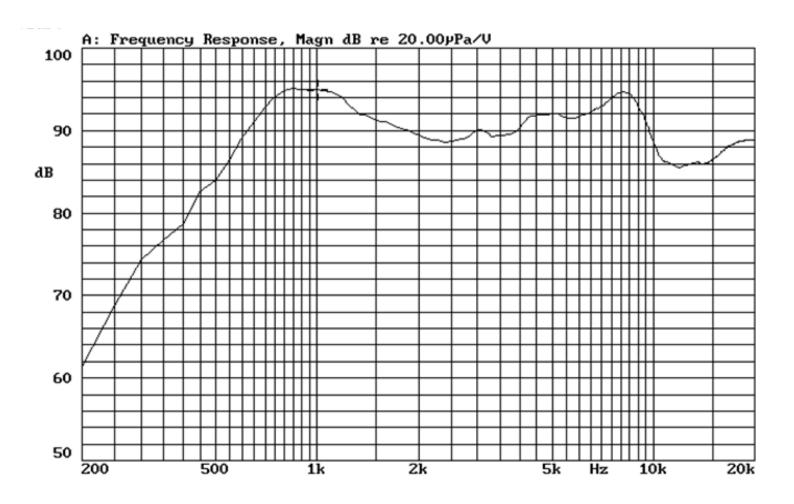




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TYPICAL FREQUENCY RESPONSE CURVE (Continued)

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



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



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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.

THEFT	TEA	DED		C TECT	
HIGH	IEN	IPEK	AIUF	RETEST	

HIGH TEMPERATURE TEST				
high temperature	+85±2℃			
duration	96 hours			
LOW TEMPERATURE TEST	LOW TEMPERATURE TEST			
low temperature	-40±2°C			
duration	96 hours			
HEAT SHOCK TEST (See in	Fig.3)			
high temperature	+85±2°C			
low temperature	-40±2℃			
duration	1 hour (high), 1 hour (low)			
changeover time	< 20 seconds			
 cycle	10			
HUMIDITY TEST				
temperature	+40±2℃			
relative humidity	90~95%			
 duration	96 hours			
 TEMPERATURE CYCLE TES	T (See in Fig.4)			
 temperature	-40°C +85°C			
duration	45 minutes 45 minutes			
 temperature gradient	1~3°C/min.			
 cycle	10			
 DROP TEST				
mounted with dummy set	100 g			
mass	<u> </u>			
 height	1.5 m			
cycle	6 (1 each plain) onto the concrete board			
LOAD TEST				
 noise signal	White noise (EIA filter)			
 input power	0.7 W (1CC BOX) (2.37Vrms)			
 duration	96 hours			



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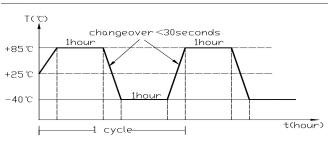
EDITION: A/2016

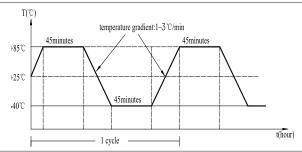
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TEST METHOD

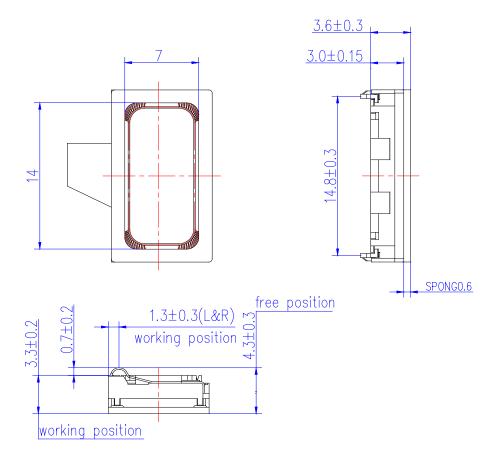
HEAT SHOCK TEST (Fig.3)

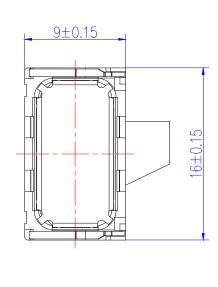
TEMP. CYCLE TEST (Fig.4)





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



PACKING

