

Soberton Inc.

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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

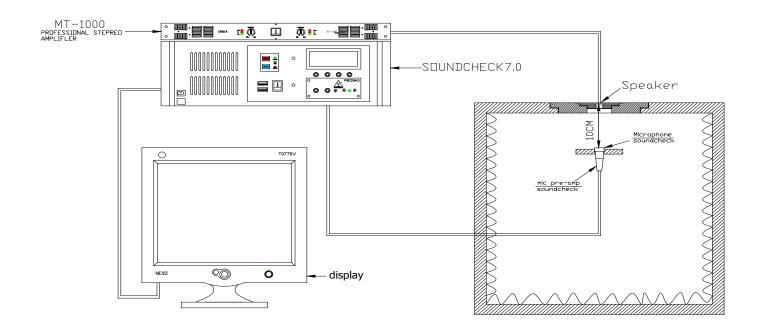
sound pressure level	92±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measuring diagram	Shown in Fig.1
typical frequency response	Shown in Fig.2.
curve	
rated noise power	0.7W (In 1CC Box)
short-term max. power	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)

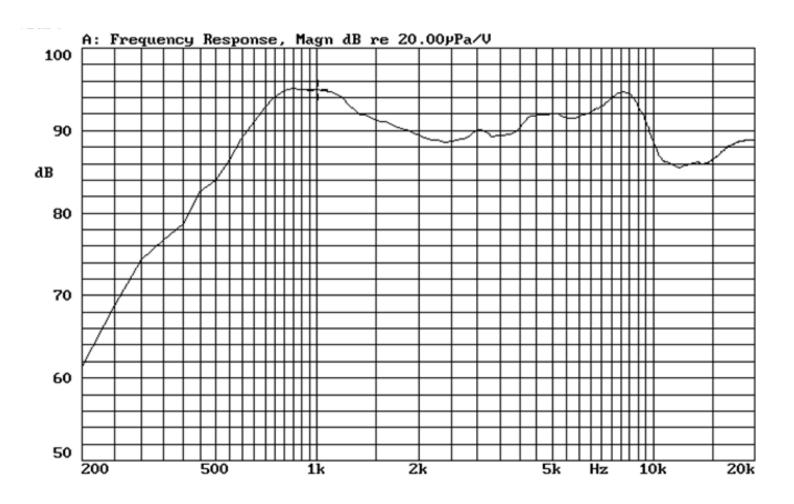




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TYPICAL FREQUENCY RESPONSE CURVE (Continued)

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.

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HIGH TEMPERATURE TEST		
high temperature	+85±2℃	
 duration	96 hours	
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°C	
duration	1 hour (high), 1 hour (low)	
 changeover time	< 20 seconds	
 cycle	10	
 HUMIDITY TEST		
temperature	+40±2°C	
 relative humidity	90~95%	
duration	96 hours	
TEMPERATURE CYCLE TES	ST (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	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	0.7 W (1CC BOX) (2.37Vrms)	
 duration	96 hours	



PRODUCT: Dynamic Speaker

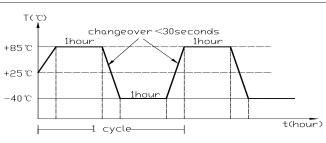
EDITION: A/2016

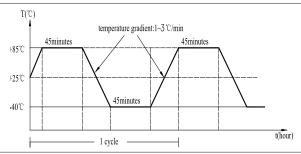
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TEST METHOD

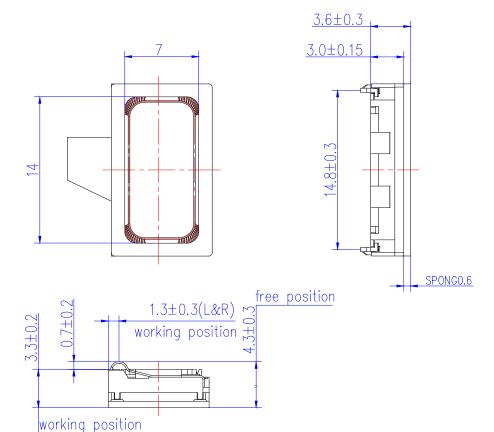
HEAT SHOCK TEST (Fig.3)

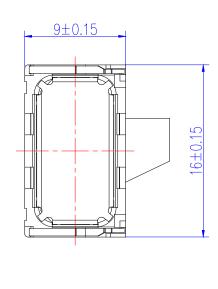
TEMP. CYCLE TEST (Fig.4)





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



PACKING

