

**PRODUCT:** Dynamic Speaker

**EDITION:** A/2016

Soberton Inc.

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

#### SPEAKER ELECTROACOUSTIC CHARACTERISTICS

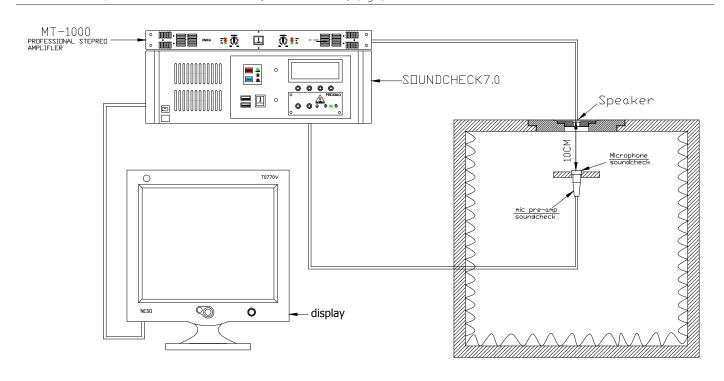
sound pressure level	83±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measuring diagram	Shown in Fig.1
typical frequency response	Shown in Fig.2.
curve	
rated noise power	0.7W (In 1CC Box)
short-term max.power	1.0W (In 1CC Box)
distortion	Less than 5% at 1KHz 1V
operation 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 3.8 mm

#### TYPICAL FREQUENCY RESPONSE CURVE

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



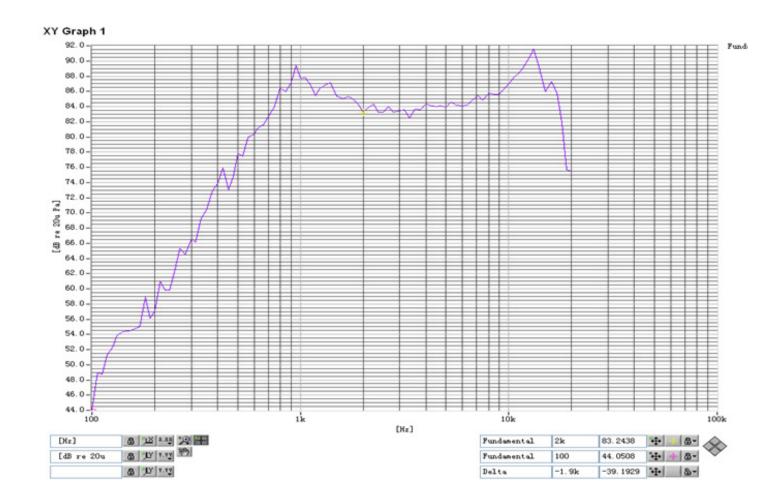


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## TYPICAL FREQUENCY RESPONSE CURVE (Continued)

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



TEST CLIMATIC CONDITIONS			
STANDARD TEST COND	STANDARD TEST CONDITIONS		
temperature	17~25°C		
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.

н	GH	TEM	IPFR	ΔΤΙΙ	RF 1	ΓEST
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	THOST TERM ENVIRONE TEST		
	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°C	
	low temperature	-40±2℃	
	changeover time	< 30 seconds	
	duration	1 hour	
	cycle	10	
	<b>HUMIDITY TEST</b>		
	temperature	+40±2°C	
	relative humidity	90~95%	
	duration	48 hours	
TEMPERATURE CYCLE TEST (See in Fig. 4)		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	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	



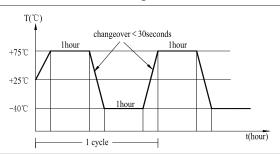
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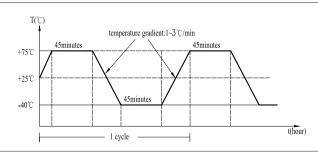
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## **TEST METHOD**

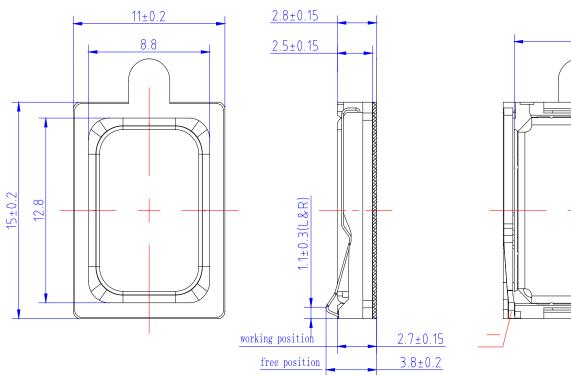
## **HEAT SHOCK TEST** (Fig. 3)

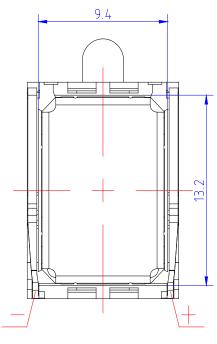
# **TEMP. CYCLE TEST** (Fig. 4)





## 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



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## **PACKING**

