

PRODUCT: Dynamic Speaker

EDITION: A/2016

Soberton Inc.

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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

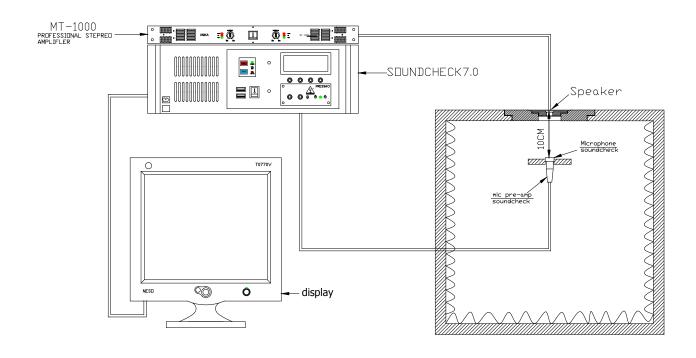
sound pressure level	83±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measuring diagram	Shown in Fig.1
typical frequency response	Shown in Fig.2.
curve	
rated noise power	0.7W (In 1CC Box)
short-term max.power	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 4.2 mm

TYPICAL FREQUENCY RESPONSE CURVE

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



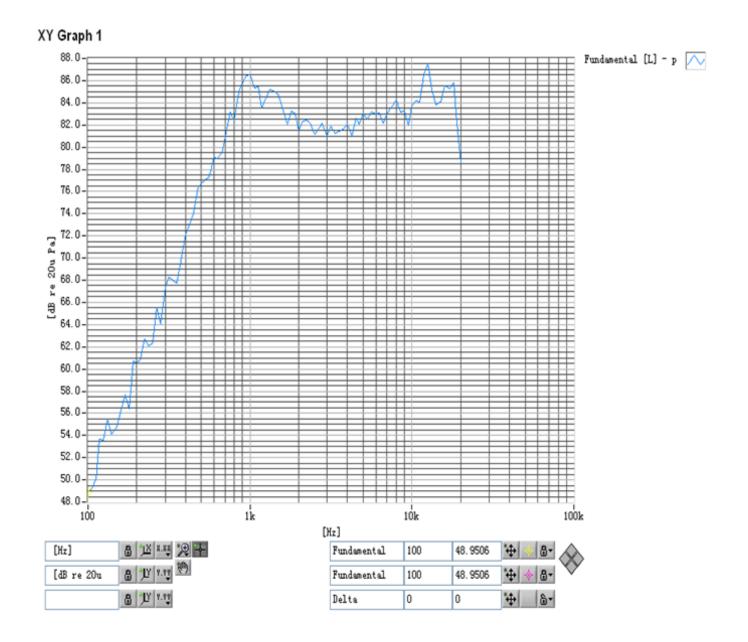


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TYPICAL FREQUENCY RESPONSE CURVE (Continued)

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



TEST CLIMATIC CONDITIONS			
STANDARD TEST CON	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	+75±2℃
	duration	96 hours
	LOW TEMPERATURE TEST	
	low temperature	-40±2℃
	duration	96 hours
	HEAT SHOCK TEST (See in	Fig.3)
	high temperature	+85±2°C
	low temperature	-40±2℃
	changeover time	< 15 seconds
	duration	1 hour
	cycle	32
	HUMIDITY TEST	
	temperature	+70±2℃
	relative humidity	90~95%
	duration	48 hours
	TEMPERATURE CYCLE TES	ST (See in Fig.4)
	temperature	-40℃ +75℃
	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
	SALT SPRAY TEST	
	temperature	+35°C
-	concentration	5%
	duration	24 hours



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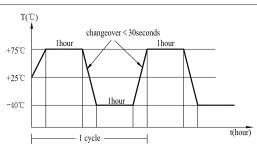
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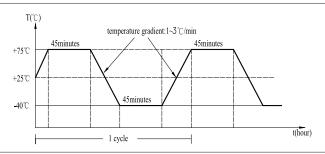
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TEST METHOD

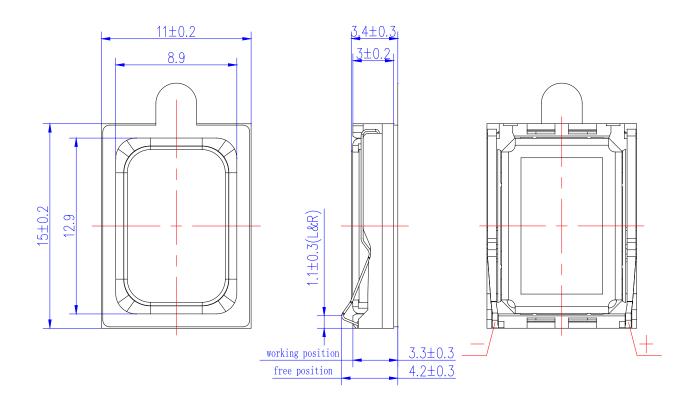
HEAT SHOCK TEST (Fig. 3)

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

