

Soberton Inc.

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

SPEAKER ELECTROACOUSTIC CHARACTERISTICS

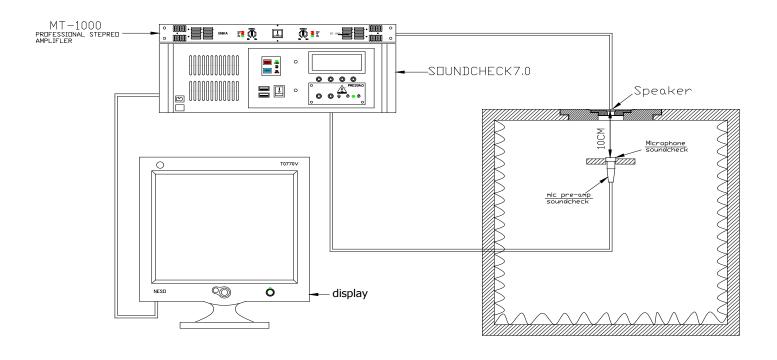
sound pressure level	82±3dB Spl @ 2KHZ 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)
resonance frequency (FO)	850±20%Hz @ 1Vrms. (In 1CC BOX)
measuring diagram	Shown in Fig.1
typical frequency response	Shown in Fig.2.
 curve	
rated noise power	0.5W (In 1CC Box)
short-term max. power	0.7W (In 1CC Box)
distortion	Less than 10% at 1KHz 1V
operation test	Must be free of audible noise (buzzes and rattles) (200 ~ 3400Hz 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 ~ +75°C
ac impedance	8.0Ω±15% (@2KHz 1Vrms)
dimension	16 x 9 x 5.2 mm

TYPICAL FREQUENCY RESPONSE CURVE

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

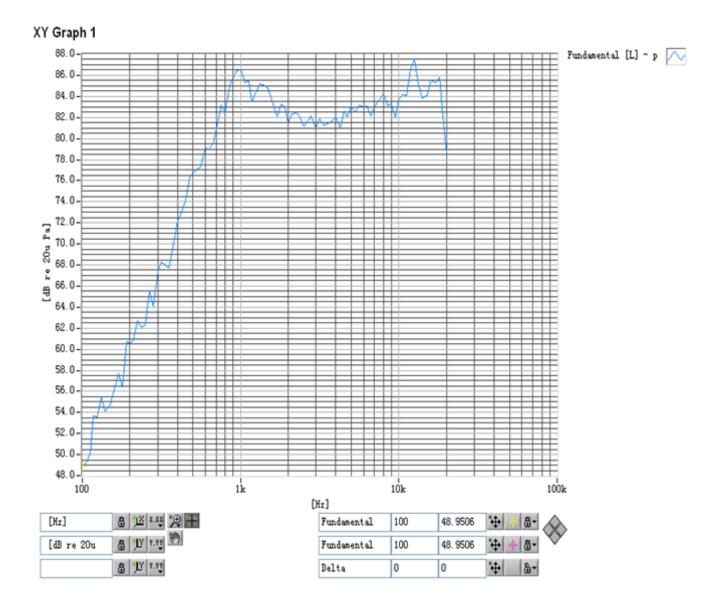




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TYPICAL FREQUENCY RESPONSE CURVE (Continued)

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				



MODEL: SP-1609S-1

PRODUCT: Dynamic Speaker

EDITION: A/2016

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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.

HIGH TEMPERATURI	TECT

THOSE TEMPORE TEST				
high temperature	+75±2℃			
duration	96 hours			
LOW TEMPERATURE TEST	LOW TEMPERATURE TEST			
low temperature	-25±2℃			
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			
duration	1 hour (high), 1 hour (low)			
changeover time	< 30 seconds			
 cycle	10			
HUMIDITY TEST				
temperature	+40±2℃			
 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	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	0.5W (1CC BOX) (2.37Vrms)			
 duration	96 hours			



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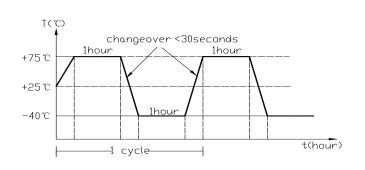
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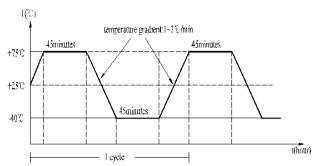
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TEST METHOD

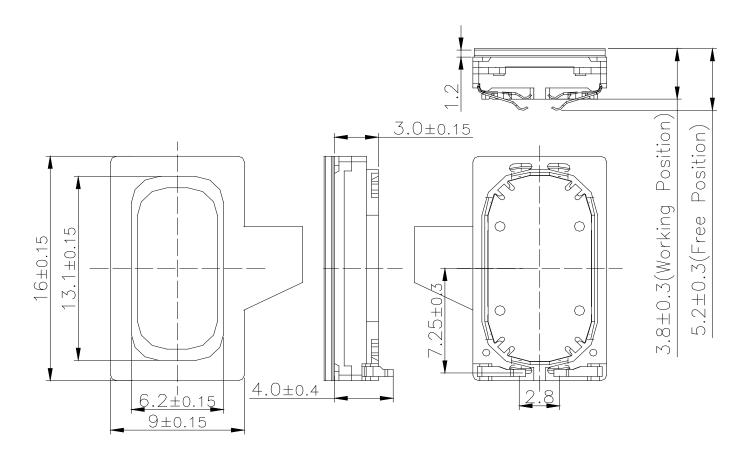
HEAT SHOCK TEST (Fig.3)

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





EDITION: A/2016

PACKING

