



Messrs : _____

SPECIFICATION

ITEM : DYNAMIC MICRO SPEAKER _____

CUSTOMER'S

MODEL : _____

MODEL

NUMBER : STS-2308-01 _____

SIZE : Ø23 5.0T _____

DATE OF APPROVAL 2007. 03.09 _____

星 音 電 子

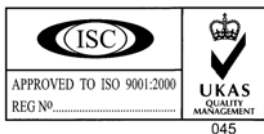
STAR ACOUSTICS CO.

SEOJIN BLDG, 887-10, SHINCHUN-DONG,
SHIHEUNG-SI, KYUNG GI-DO.KOREA.

TEL : (031)404-4203

FAX : (031)318-8692

E-MAIL : leedh4203@hanmail.net



STS-2308-01

DYNAMIC MICRO SPEAKER

1. Scope

This documents contains both general speaker requirements, qualification Requirements, and those specific electrical and mechanical requirements For this model. (Dynamic Micro Speaker)

2. Mechanical Specification

2.1	Dimension	23mm X 5.0mmT
2.2	Weight	5.21g $\pm$ 10%
2.3	Magnet	Nd-Fe-B , $\varnothing$ 9.5mm X 1.5mm
2.4	Appearance	Should not exist any obstacles to be harmful to Normal operation, from damages, cracks, rusts and Distortions, etc.

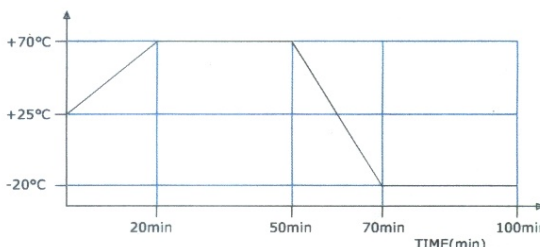
3. Electro-acoustical Specification

3.1	S.P.L	84dB $\pm$ 3dB (1.0W/0.5m) Average at 1.0k, 1.2k, 1.5k, 2.0kHz
3.2	Impedance	8 ohm $\pm$ 15% at 1V, 1kHz
3.3	Power Rating	Nominal 0.7W, Max 1.0W
3.4	Resonance Frequency	600Hz $\pm$ 20% at 1V.
3.5	Frequency Range	600Hz ~ 20kHz
3.6	Distortion	5% max, at 1kHz, 0.7W
3.7	Magnetic Flux Density	----- Gauss
3.8	Polarity	Positive DC current is applied to the Terminal marked(+) should be moved Forward.
3.9	Terminal Strength	Capable of withstand a 500g load for 3sec. Without resulting in any damage or rejection.
3.10	Buzz & Rattle	Must be normal at 2.36V Sine wave between 600Hz to 20kHz

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DYNAMIC MICRO SPEAKER

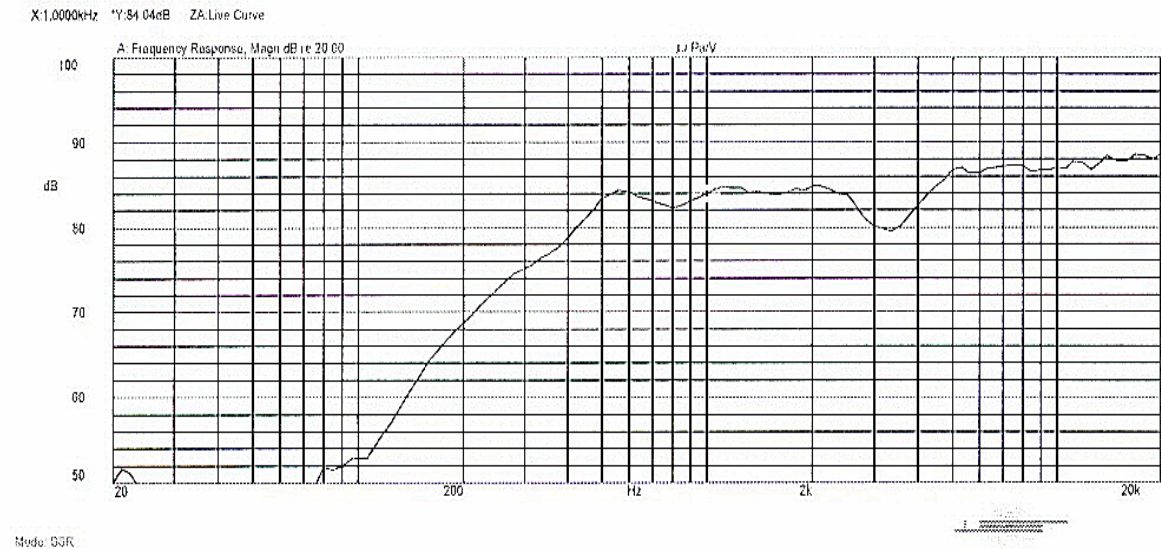
4. Qualification test

4.1	Initial Characteristics	All data initially taken at + 25 °C (Room Temperature). Component must be fully stabilized at + 25 °C before data Is taken which may require up to a 4 hour soak.
4.2	Heat Resistance Test	Sound pressure level is not to deviate by more than $\pm 3\text{dB}$ From pre-test measurement after exposed for 96 hours to $+70\pm 2^\circ\text{C}$ then removed and placed under normal temperature for a period 3hours.
4.3	Cold Resistance Test	Sound pressure level is not to deviate by more than $\pm 3\text{dB}$ From pre-test measurement after exposed for 96 hours to $-20\pm 2^\circ\text{C}$ then removed and placed under normal temperature for a period 3 hours.
4.4	Static Humidity	Precondition at $+25^\circ\text{C}$ for 1 hour. Then expose to $+40^\circ\text{C}$ With 90 to 95% relative humidity for 96 hours. Finally allow to dry at room ambient for 6 hours before Taking final measurements.
4.5	Load Test (Life Test)	0.7white noise is applied for 96 hours application of- Filtered signal and satisfy the tests listed on specifications 2.4 / 3.1 / 3.4 / 3.10
4.6	Drop Test	Drop the unit contained in normal box onto the board 20mm Thickness 10 times from the height of 0.75m and then should Satisfy the tests listed on specifications 2.4 / 3.10
4.7	Temperature Cycling	One cycle shall consist of 30minutes at $+70^\circ\text{C}$ followed By 30minutes at -20°C. Allow 20 minute chamber transition Time at $+25^\circ\text{C}$ between temperature extremes total of 10cycles. Temperature($^\circ\text{C}$)  (Diagram For 1 Cycle)

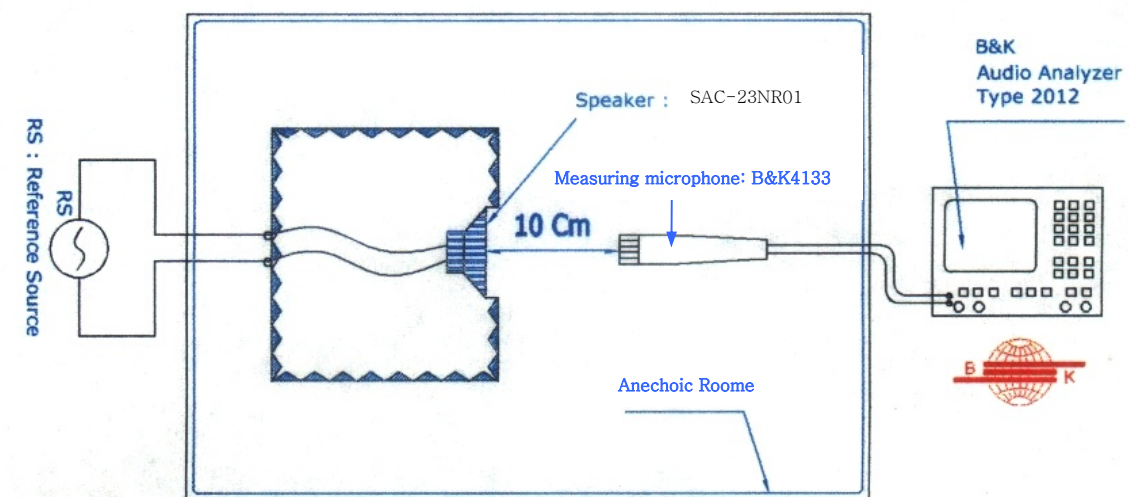
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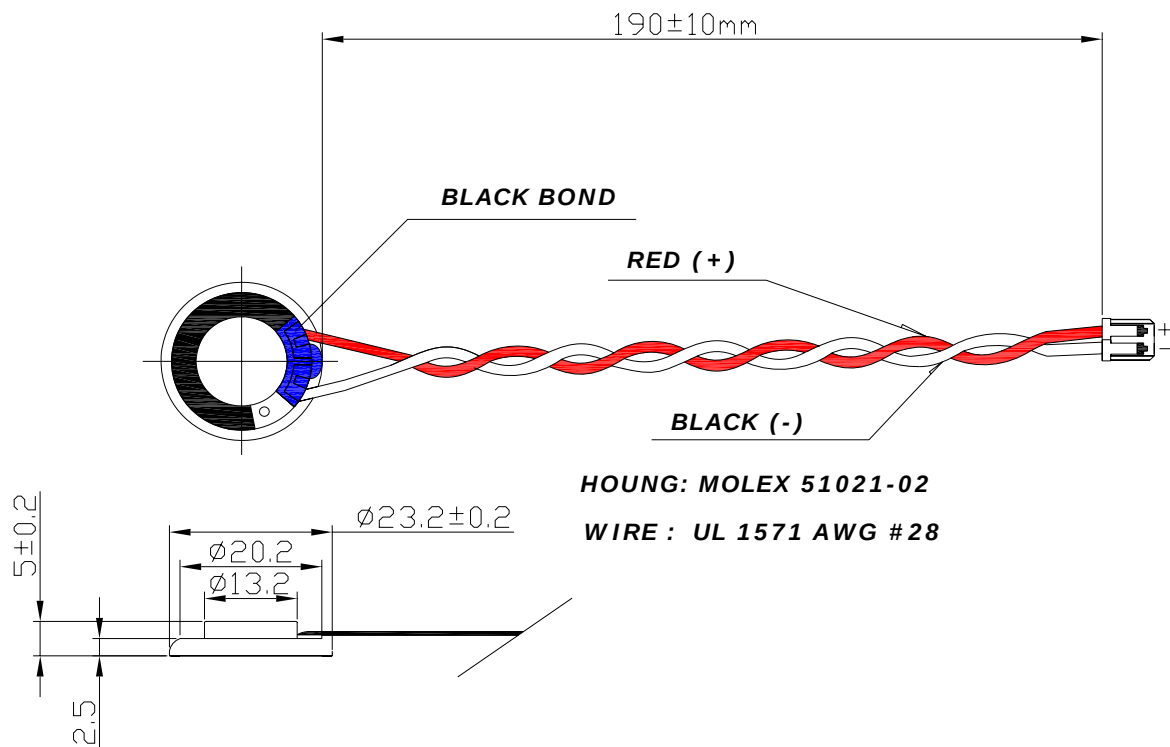
5. Frequency Response Curve



6. Measurement setup



- 6-1. Testing input : 1.0W
- 6-2. Measuring Distance : 0.5m
- 6-3. Potentiometer Range : 50dB
- 6-4. Response Time : 0.5 sec



MODEL NO	STS-2308-01	DATE	2007.03.09	
TITLE	Dynamic Micro Speaker	DESD.BY	CHED.BY	APPD.BY
Scale	N/S	  		
Tolerance	± 0.2			
Unit	mm			