




SPECIFICATIONS for Approval sheet

Item : SPEAKER
Model : SG-5008

Drawn	Checked	Approved
		

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1.SCOPE

THIS SPECIFICATION IS APPLIED TO THE MICRO SPEAKER
(SG-5008) WHICH IS USED AS THE CELLULAR PORTABLE PRODUCT.

2.MECHANICAL LAYOUT & DIMENSIONS

SHOWN IN PAGE 9.

3.ELECTRICAL AND ACOUSTICAL CHARACTERISTICS (AT 20°C)

3.1 SOUND PRESSURE LEVEL

93± 3dB SPL AT 0.1W / 0.1m(AVERAGE AT 0.8k, 1.0k, 1.2k, 1.5kHz), 0dB=20μPa

INPUT VOLTAGE : 0.63V

3.2 NOM. /MAX. INPUT POWER : 0.1W/0.3W

3.3 VOICE COIL IMPEDANCE : $8\Omega \pm 15\%$ (AT 1.2kHz, 1V)

3.4 RESONANCE FREQUENCY (Fo) : 300Hz ± 20%(AT 1.0 V)

3.5 FREQUENCY RANGE : Fo ~ 20 kHz

3.6 BUZZ AND RATTLES : SPEAKER UNIT MUST BE FREE AUDIBLE NOISE AT

(2.82)V rms,SINE

WAVE BETWEEN Fo AND 20kHz FREQUENCY.

4. GENERAL REQUIREMENTS

4.1 WEIGH : APPR. 4.5g ± 0.3g

4.2 OPERATING TEMPERATURE RANGE : -30°C TO 70°C

4.3 STORAGE TEMPERATURE RANGE : Temperature : 20 ± 5°C, Humidity : 95%

5. RECOMMEND STORAGE CONDITION

5.1 MANAGING AT THE NORMAL TEMPERATURE(20~25°C) WITH VENTILATION AND IT IS
WITHOUT A DIRECT RAY OF LIGHT.

5.2 DO NOT LOAD OVER 5 STEPS.

6. HANDLE WITH CARE

6.1 DO NOT DISMANTLE IT OPTIONALLY.

6.2 DO NOT KEEP THE FOLLOWING PLACES (OVERHEATING,FORCE IMPACT,HUMIDITY,
THE POWDER OF IRON, CORROSIVENESS GAS)

7.REGARDING THE CLEAR USAGE

7.1 PROHIBIT TO USE THE DETERGENT BECAUSE IT IS POSSIBLE TO GIVE AN INFLUENCE
AT THE PROPERTY OF PRODUCT

8.GUARANTEE TERMINATION

8.1 12 MONTHS AS PER THE CONDITION, Temperature : 20± 5°C, Humidity : 95%

9. QUALIFICATION TESTS

- AFTER TEST

Measurement shall be done after 24 hours of conditioning at 20°C.

Sensitivity difference at 1kHz shall be within $\pm 3\text{dB}$ from initial value after test.

- HIGH TEMPERATURE TEST(IEC 60268-5-25.1)

High temperature : $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Duration : 96 hours

- HUMIDITY TEST(IEC 60268-5-25.2)

Temperature : $60^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative humidity : 95%

Duration : 88 hours

- LOW TEMPERATURE TEST (IEC 60268-5-25.1)

Low temperature : $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Duration : 96 hours

- TEMPERATURE CYCLE TEST (IEC 60268-5-25.1)

Temperature : $-40^{\circ}\text{C} \pm 2^{\circ}\text{C} \leftrightarrow +85^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Duration : 45 min 45 min

Cycle : 27 cycles

- LOAD TEST (IEC 60268-5-17)

Input power : 2.0W(2.82v), WHITE

Duration : 96 hours

- DROP TEST(Under the unit) (자체 규정)

Height : 1.5M

Cycle : 24cycles

Drop face : iron plate

10. RoHS

10.1 SUITABILITY RoHS (A GUIDING THE PRINCIPLE TO RESTRICT THE USE OF HARMFUL SUBSTANCE)

11. MTTF(Mean Time To Failure)

11.1 NORMAL DEFECT OF LIFETIME AT 120 hours

12. OUTGOING INSPECTION

12.1 OUTWARD APPEARANCE : INFERIOR DIMENSION : KS A ISO 2859-1 NOR. ONE TIME G- II C = 0

MIDDLE INFERIORITY : KS A ISO 2859-1 NOR. ONE TIME G- II C = 0

LIGTH INFERIORITY : KS A ISO 2859-1 NOR. ONE TIME G- II AQL = 0.65

12.2 DIMENSION : CHECKING INSPECTION : n=20, C = 0

12.3 EFFICIENCY : INFERIORITY : KS A ISO 2859-1 NOR. ONE TIME G- II C = 0

MIDDLE INFERIORITY : KS A ISO 2859-1 NOR. ONE TIME G- II C = 0

12.4 DISASSEMBLY & INSPECTION : CHECKING INSPECTION n=5, C = 0

13. TEST AND INSPECTION METHOD.

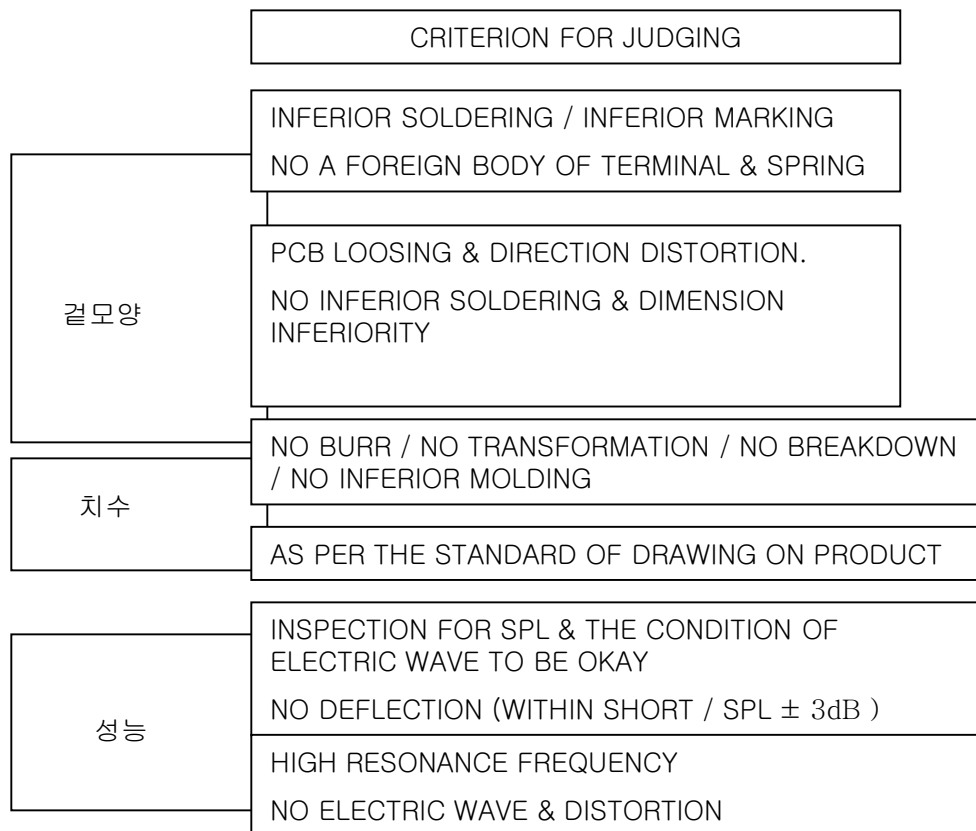
- 13.1 OUTWARD APPEARANCE : DAMAGE / A FOREIGN BODY / CONDITION OF SOLDERING / P.C.B LOOSING / CONDITION OF MARKING / P.C.B EVENESS, ETC. ARE TO BE CONFIRMED.
- 13.2 DIMENSION : THE MEASUREMENT OF THE PARTS WHICH WAS DRAWING UP ON A DRAWING OF THE PRODUCTS.
- 13.3 EFFICIENCY : SPL, COMSUMPTION ELECTRICITY, ELECTRIC WAVE TO BE CHECKED.

14. SOLER TYPE(MAKER)

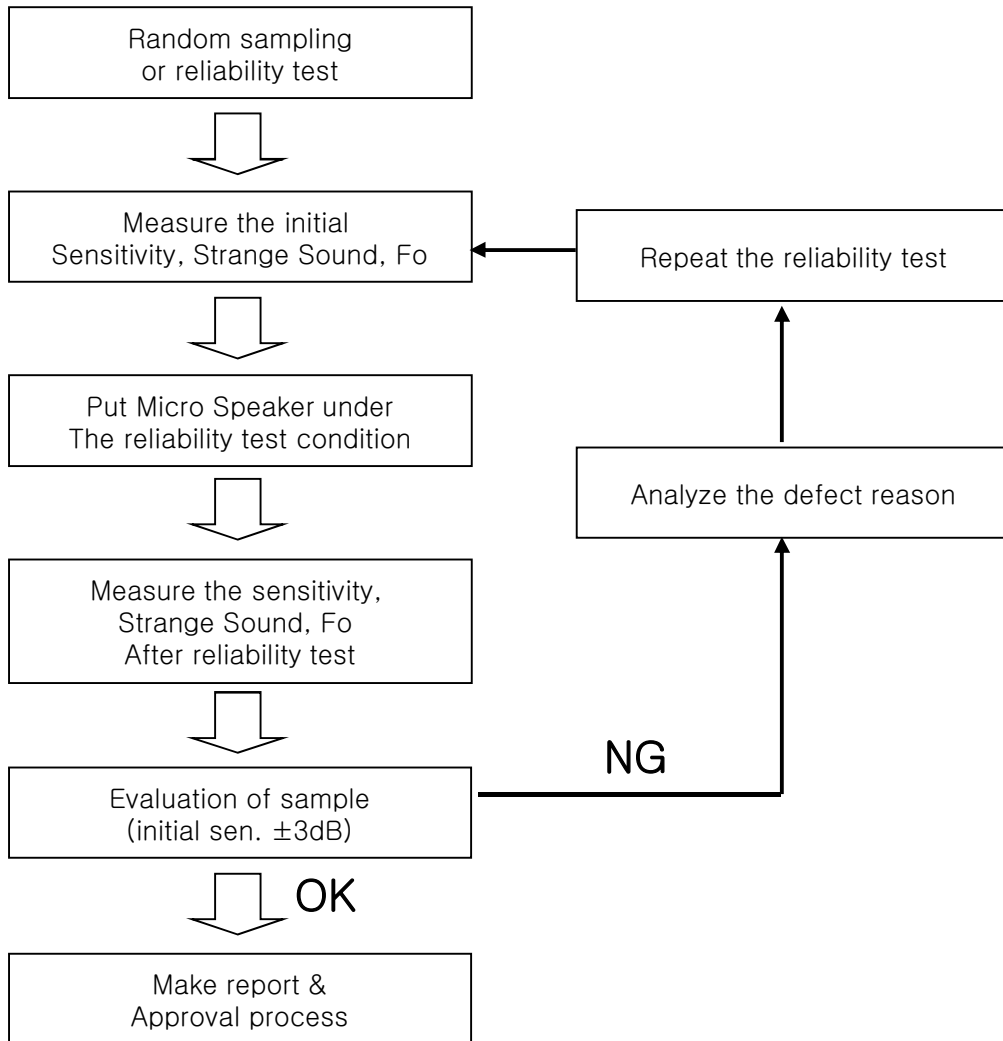
- 14.1 PB-FREE : SR-34 SUPER(HSE02)

15. PASS/REJECT STANDARD

- 15.1 OURWARD APPEARANCE:INFERIOR DIMENSION:KS A 3109 NOR.ONE TIME G- II AQL= 0.15
MIDDLE INFERIORITY: KS A 3109 NOR.ONE TIME, G- II AQL = 0.65
LIGHT INFERIORITY : KS A 3109 NOR.ONE TIME G- II AQL = 1.5
- 15.2 DIMENSION : CHECKING INSPECTION : n=20, C=0
- 15.3 EFFICIENCY : INFERIOR DIMENSION : KS A 3109 NOR.ONE TIME G- II AQL = 0.15
MIDDLE INFERIOR : KS A 3109 NOR.ONE TIME, G- II AQL = 0.65



16. RELIABILITY MEASUREMENT FLOW



-Sample size

10pcs for each test

- Measurement item

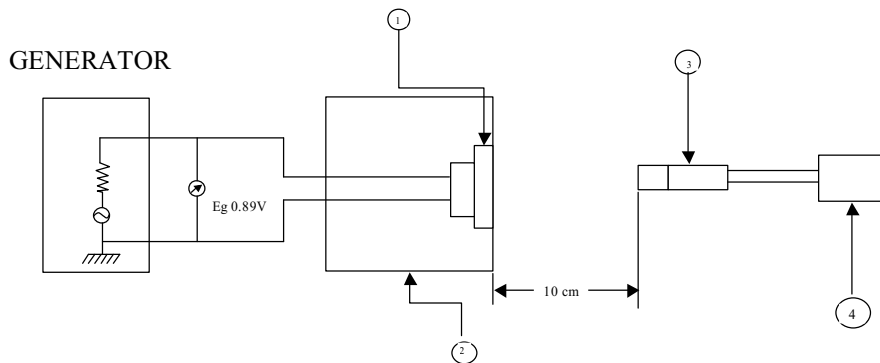
Sensitivity, Strange Sound, Fo

-Measurement item

After test, High temperature test, Humidity test, Vibration test,

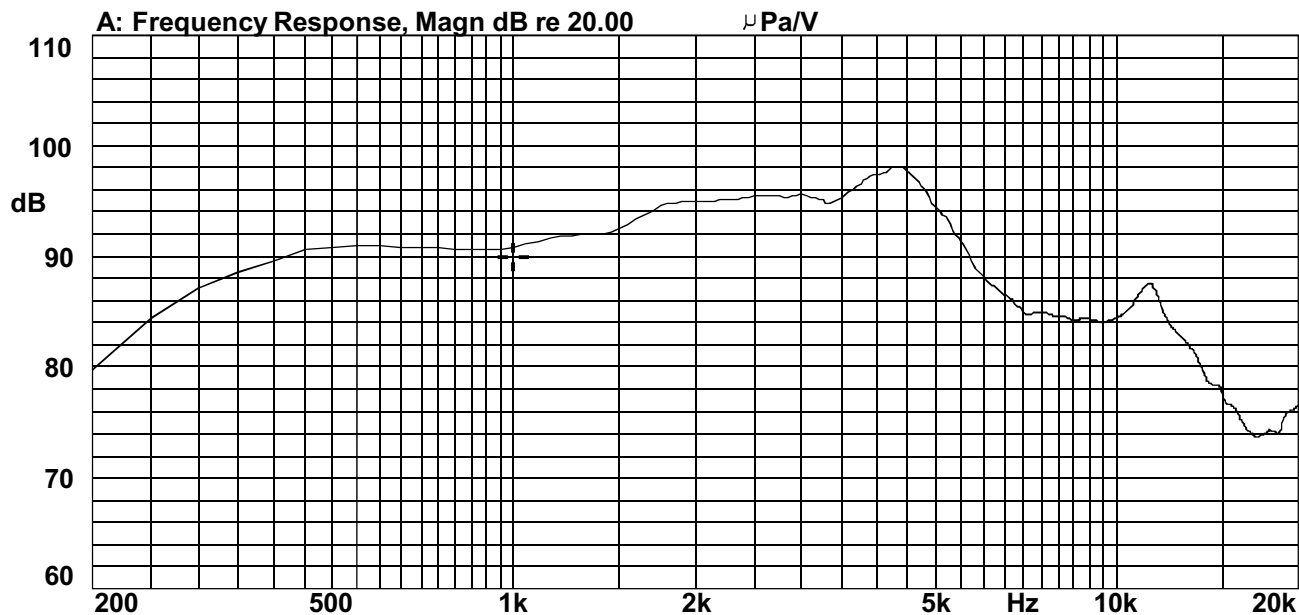
Low temperature test, Temperature cycle test, Load test, Drop test

17. ELECTRICAL CHARACTERISTICS MEASUREMENT



1	Dynamic Speaker	SG-5008
2	Standard Baffle Box	10cm x 10cm x 10cm (1000cc)
3	Microphone	B & K 4191
4	Analyzer	B & K 2012

18. CHARACTERISTICS GRAPH



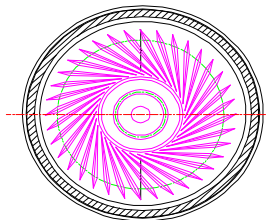
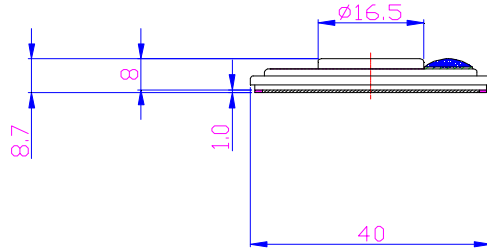
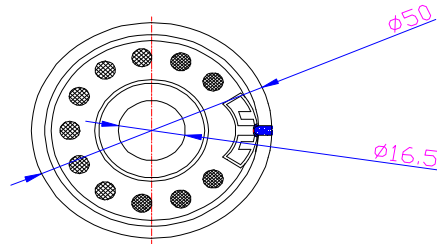
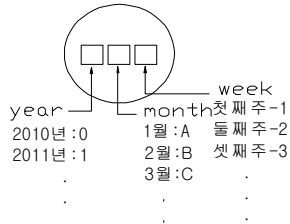
Mode: TSR



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MARKING STAMP



⑥	WIRE	1	AWG #28 RED/BLACK:45mm	하우징 제거
⑤	RING GRILL SCREEN	1	PORON 양면	1.0T BLACK
④	FRAME SCREEN	1	NONWOVEN	3B BLACK
③	GASKET	1	ABS	1.5T BLACK
②	TERMINAL	1	EPOXY	0.4T -
①	FRAME	1	ScP-1	ZnC-1 -

△										
REVISION	DATE	NOTE	SIGN	APPD.BY	NO.	PART NAME	Q'TY	MATERIAL	TREATMENT	REMARK
SCALE	1 : 1	DES.D.BY	CHE.D.BY	APPD.BY	DATE	2016-06-25				
TOLERANCE	± 0.2			T.moon	MODEL NO.	SG-5008				
UNIT	mm	S.J.H	L.Y.M	K.S.W	TITLE	APPEARANCE				
					DRAWING NO.	DIM-5008-100				

A4(210X297mm)