



SPECIFICATION

Product	Micro speaker	Issued date	29-Jul-03
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1. Physical dimension.

Diameter	20 mm (Refer to drawing)
Thickness	3.0 mm (Refer to drawing)
Weight	2.4g ± 0.3g

2. Electric characteristics.

Impedance	8 Ω ± 15 % at 1.0V 1KHz.
S.P.L.	86 dB ± 3 dB at 0.8 , 1.0 , 1.2 , 1.5 KHz. Average figures / 4 Pts .
Power	Nor. : 0.5 W (2.0V)
	Max. : 1.0 W (2.83V)
Resonant Frequency (Fo)	700 Hz ± 20% at 1.0 V
Effective Frequency band	Fo ~ 4 KHz.
Distortion	Less than 5% at 1 KHz 0.5 W.
Buzz & rattle , etc.	Not be audible at 2.0 V sine wave, Fo ~ 4 KHz.
Load Test	Must be normal with program source 0.5 W. / (2.0V) White noise / 96 Hrs.
Magnet	8.0 mm × 1.0 mm (Rare Earth Permanent Magnet) Flux density 4,300 Gauss (SURFACE).

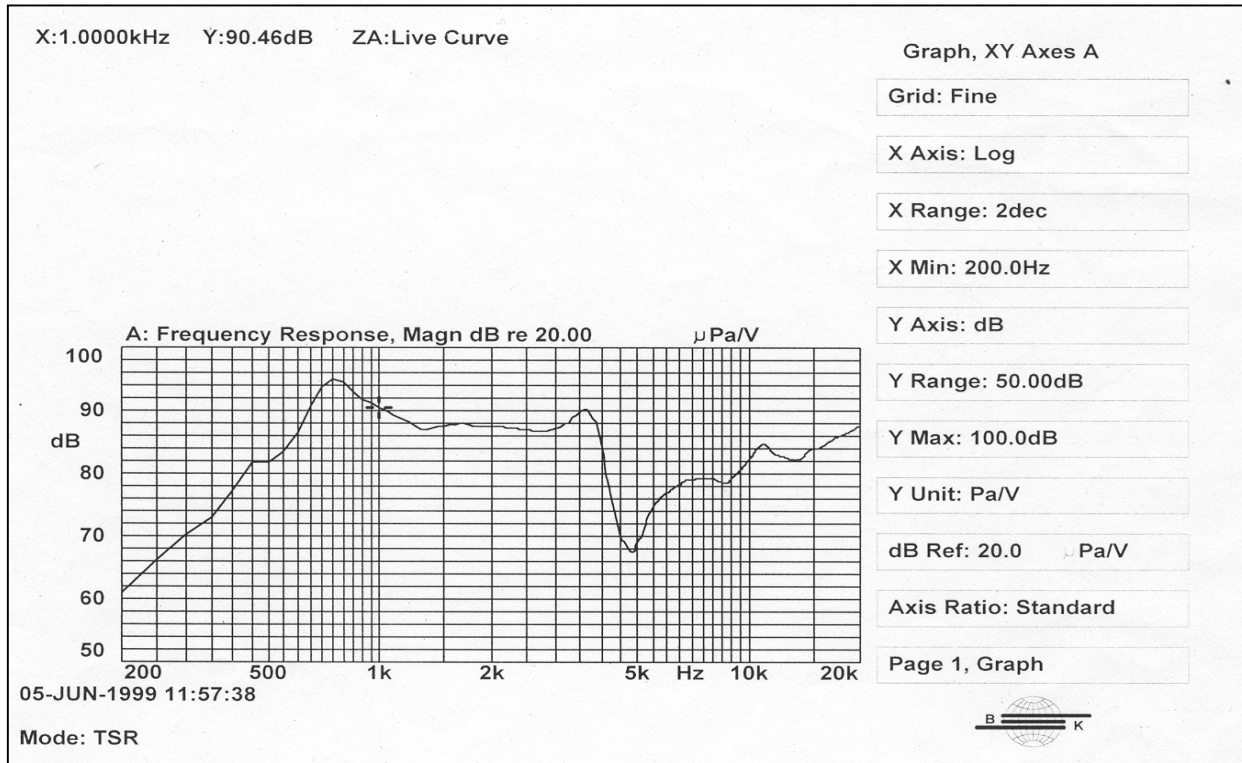
3. Environment Test

High Temperature	+60°C ± 3°C 96 Hrs and keep 6 Hrs in a room.
Low Temperature	-20°C ± 3°C 96 Hrs and keep 6 Hrs in a room.
Humidity Resistance	+80°C ± 3°C 90 % ± 5% 96 Hrs.
Operation Temperature Range	-40°C ± 3°C ~ +60°C ± 3°C
Storage Temperature Range	-40°C ± 3°C ~ +70°C ± 3°C

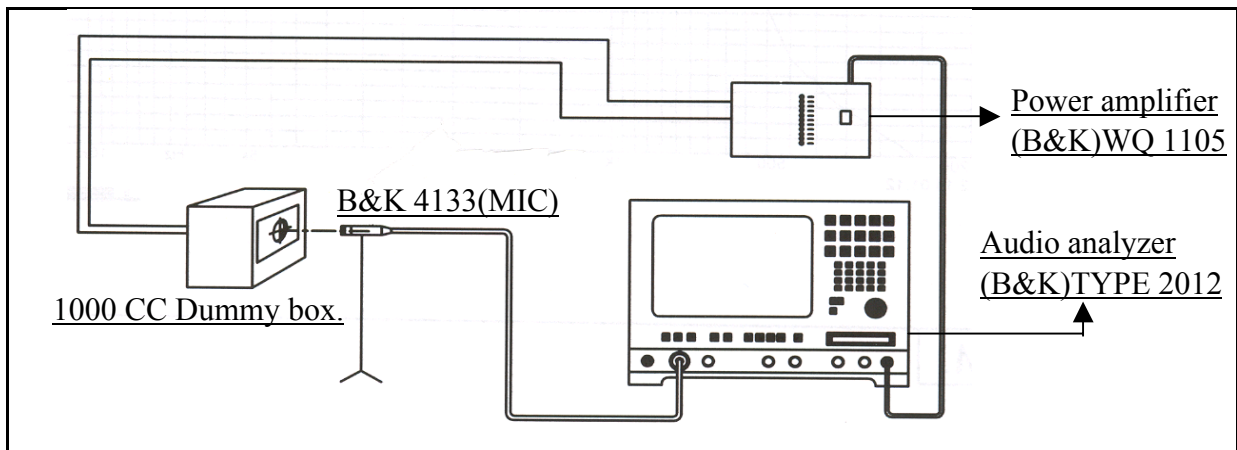
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4. Frequency curve.



5. Test diagram.

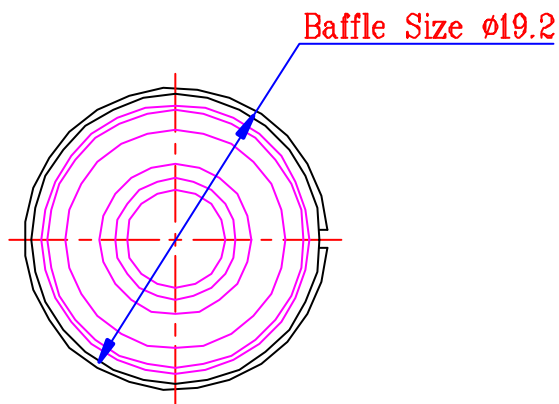
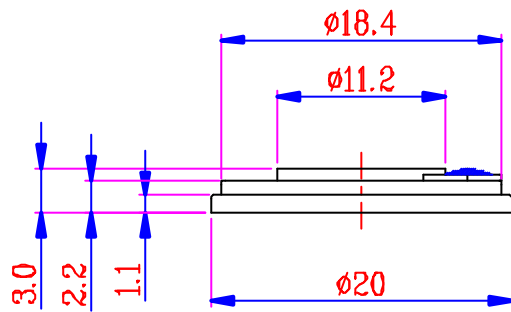
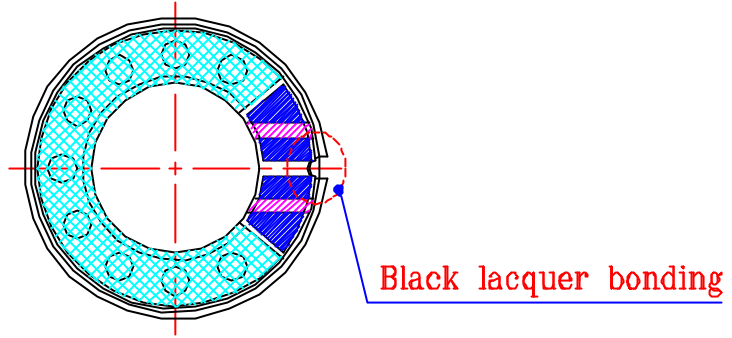
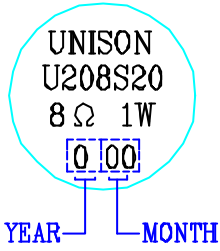


6. Measurement condition.

Microphone	B&K 4311	Zero level	50 dB
Mode	TSR	Input power	0.5 W
Mic distance	0.1m	Sweep time	0.5Sec

REV.NO	DATE	DESCRIPTION	DRAW.BY	CHKD.BY	APP.BY

MARKING



UNIT	mm	DRAW.BY	CHKD.BY	APP.BY	DATE	JUL. 29. 2003
SCALE	2 : 1	J.M.KIM	I.G.SONG	E.S.CHOI	MODEL NO.	U208S20
TOL	± 0.15	03.07.29	03.07.29	03.07.29	NOMENCLATURE	MODEL DIMENSION
FRM.UA-G-004-03 Rev.1 UNISON ACOUSTICS CO., LTD. A4(297 X 210)mm						