# **SPECIFICATION**



Product	Micro speaker	<b>Issued date</b>	09-Jul-04
Part No.	Part No. U3008B02		1 of 3

### 1. Physical dimension.

Diameter	30 mm ( Refer to drawing )	
Thickness	<b>5.1 mm</b> ( Refer to drawing )	
Weight	4.6g ±0.4g	

### 2. Electric characteristics.

Impedance	$8\mathbf{\Omega} \pm 15$ % at 1.0V 1KHz.	
S.P.L.	<b>84 dB <math>\pm</math> 3 dB</b> at 0.8, 1.0, 1.2, 1.5 KHz.	
	Average figures / 4 Pts .	
Power	Nor.: <b>1.0 W</b> (2.83V)	
	Max.: <b>1.5 W</b> ( 3.46V )	
Resonant Frequency (Fo)	<b>750 Hz</b> ± 20% at 1.0 V	
Effective Frequency band	Fo ~ <b>4.5 KHz.</b>	
Distortion	Less than 5% at 1 KHz 1.0 W.	
Buzz & rattle, etc.	Not be audible at 2.83 V sine wave, Fo $\sim$ 4.5 KHz.	
Load Test	Must be normal with program source 1.0 W. / (2.83V)	
	White noise / 96 Hrs.	
Magnet	12.5 mm × 1.5 mm ( Rare Earth Permanent Magnet)	
	Flux density 6,600 Gauss (SURFACE).	

### 3. Environment Test

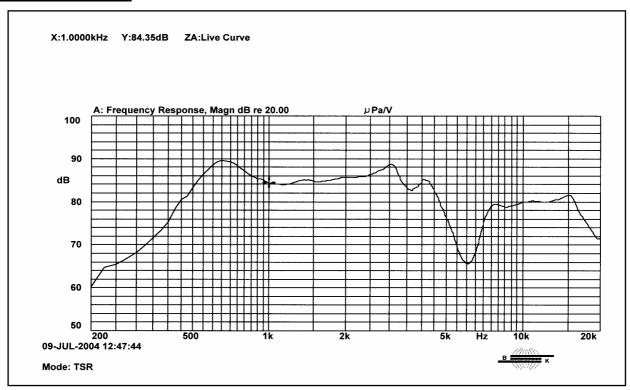
High Temperature	+60 °C ± 3 °C 96 Hrs and keep 6 Hrs in a room.		
Low Temperature	<b>-20</b> $\mathbb{C}$ ± <b>3</b> $\mathbb{C}$ 96 Hrs and keep 6 Hrs in a room.		
Humidity Resistance	+80 °C ± 3 °C 90 % ~ 95 % 96 Hrs.		
Operation Temperature Range	$-40^{\circ}\text{C} \pm 3^{\circ}\text{C} \sim +60^{\circ}\text{C} \pm 3^{\circ}\text{C}$		
Storage Temperature Range	$-40^{\circ}\mathbb{C} \pm 3^{\circ}\mathbb{C}  \sim +70^{\circ}\mathbb{C} \pm 3^{\circ}\mathbb{C}$		

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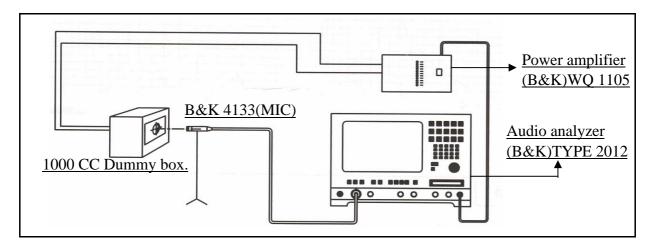


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### 4. Frequency curve.



### 5. Test diagram.



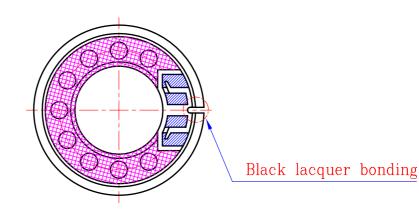
### 6. Measurement condition.

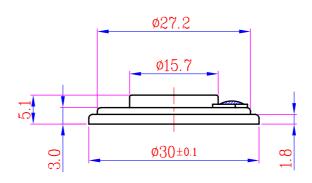
Microphone	B&K 4311	Zero level	50 dB
Mode TSR		Input power	1.0 W
Mic distance 0.1m		Sweep time	0.5Sec

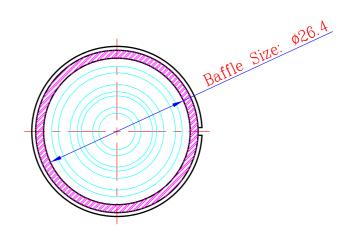
REV. NO	DATE	DESCRIPTION	DRAW.BY	CHKD.BY	APP.BY

## **MARKING**









UNIT	mm	DRAW.BY	CHKD. BY	APP.BY	DATE	09-JUL-2004
SCALE	1.5: 1	J. M. KIM	I.G.SONG	E.S.CHOI	MODEL NO.	U3008B02
TOL	±0.2	2004.07.09	2004.07.09	2004.07.09	NOMENCLATURE	MODEL DIMENSION
FRM II	FRM UA-G-004-03 Rev O UNISON ACQUISTICS CO LTD A4(297 X 210)mm					

