

REVISION HISTORY



Product		Micro speaker		Issued Date	24-May-12
Model No.		CE-1508S59K		Page No.	1 of 4
REV No.	DATE	PAGE	DESCRIPTION OF REVISION	REASON	
0	12.05.24		INITIALLY DESIGNED		
1	13.04.11	p.2	Correction F0 550Hz → 750Hz		

SPECIFICATION



Product	Micro speaker	Issued date	24-May-12
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1. Physical dimension.

Diameter	15 mm (Refer to drawing)
Thickness	4.0 mm (Refer to drawing)
Weight	1.3g ± 0.1g

2. Electric characteristics.

Impedance	8 Ω ± 15 % at 1.0V 1KHz.
S.P.L.	87 dB ± 3 dB at 0.8 , 1.0 , 1.2 , 1.5 KHz. Average figures / 4 Pts .
Power	Nor. : 0.5 W (2.0 V)
	Max. : 1.0 W (2.83 V)
Resonant Frequency (Fo)	750 Hz ± 20% at 1.0 V
Effective Frequency band	Fo ~ 10 KHz.
Distortion	Less than 5% at 1 KHz 0.1 W.
Buzz & rattle , etc.	Not be audible at 2.0 V sine wave, Fo ~ 10 KHz.
Load Test	Must be normal with program source 0.5 W / (2.0V) White noise(EIA) / 96 Hrs.
Magnet	7.85 mm × 1.1 T (Rare Earth Permanent Magnet)
Leakage Flux	Front Cover Surface Center : MAX 1000 Gauss

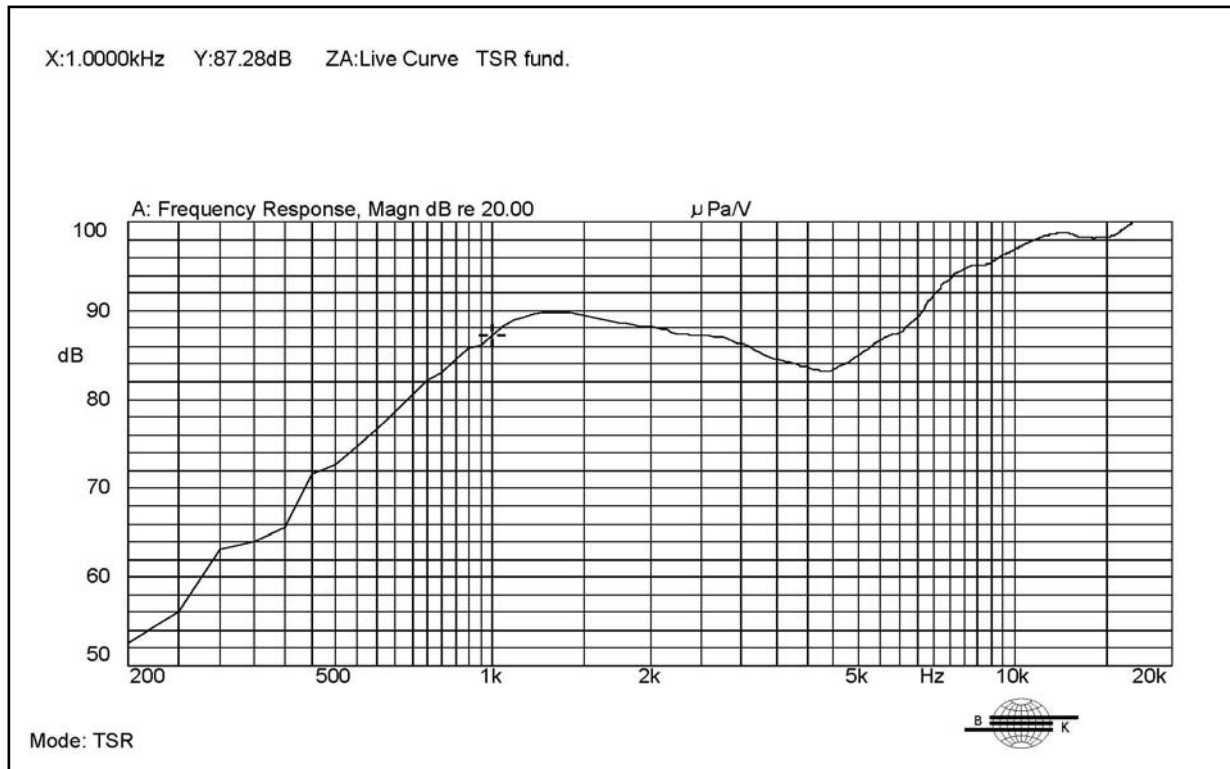
3. Environment Test

High Temperature	+85 °C ± 3 °C 96 Hrs and keep 6 Hrs in a room.
Low Temperature	-40 °C ± 3 °C 96 Hrs and keep 6 Hrs in a room.
Humidity Resistance	+40 °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

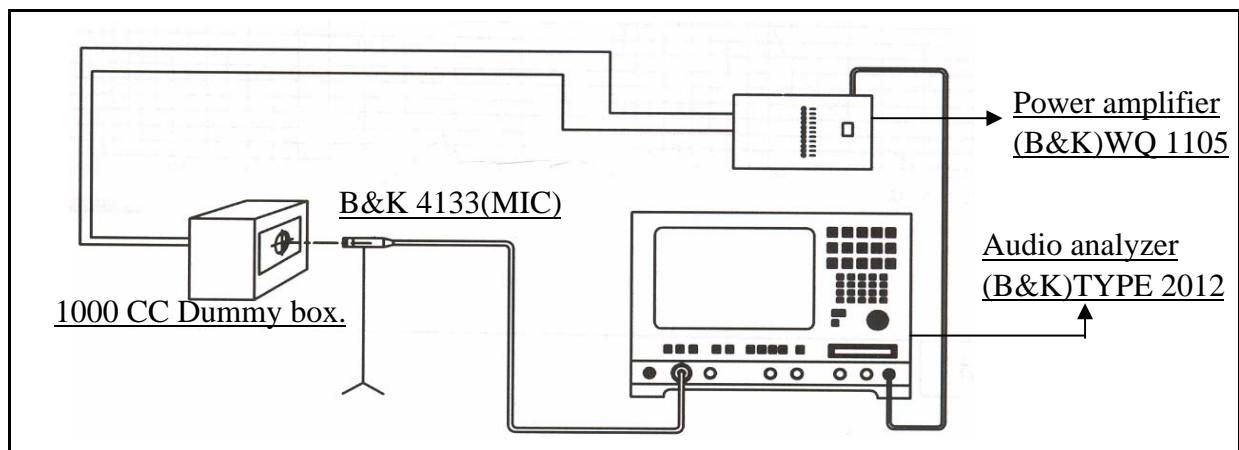
SPECIFICATION

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4. Frequency curve.



5. Test diagram.

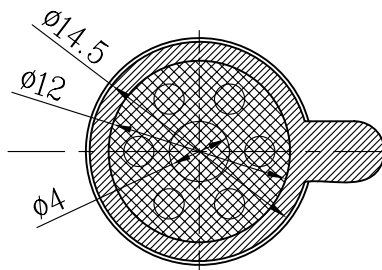
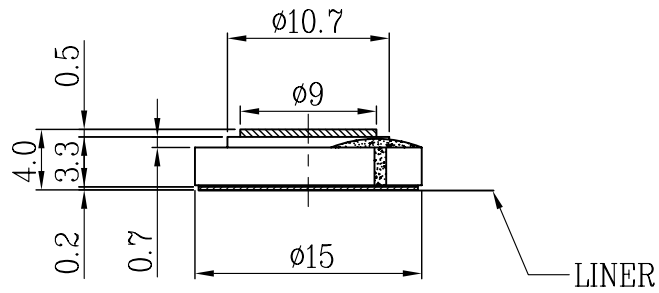
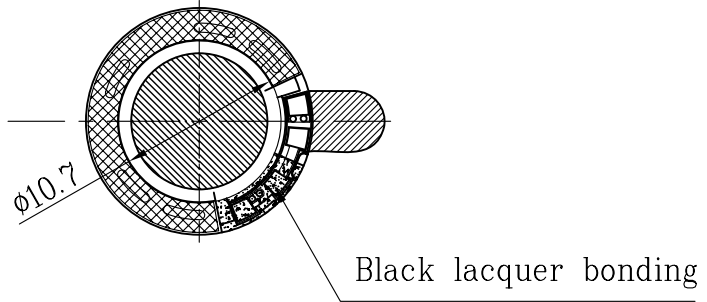
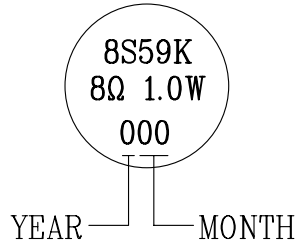


6. Measurement condition.

Microphone	B&K 4133	Zero level	50 dB
Mode	TSR	Input power	0.1 W
Mic distance	0.1m	Sweep time	0.5Sec

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

MARKING



*NOTE: RoHS Compliant

UNIT	mm	DRAW.BY	CHKD.BY	APP.BY	DATE	24-MAY-2012
SCALE	2.5 : 1	J.H.MOON	D.W.P	I.G.SONG	MODEL NO.	CE-1508S59K
TOL	±0.2	2012.05.24	2012.05.24	2012.05.24	NOMENCLATURE	MODEL DIMENSION
CHALLENGE ELECTRONICS.						