

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
暫定	JUL,15,2010	蔡愛國	楊冉	謝明福



SPECIFICATIONS

MODEL NO
OBO-40SN-0B-012

PART NAME
ELECTRET CONDENSER MICROPHONE

SHEET
2 OF 5

MODEL NO : OBO-40SN-0B-012

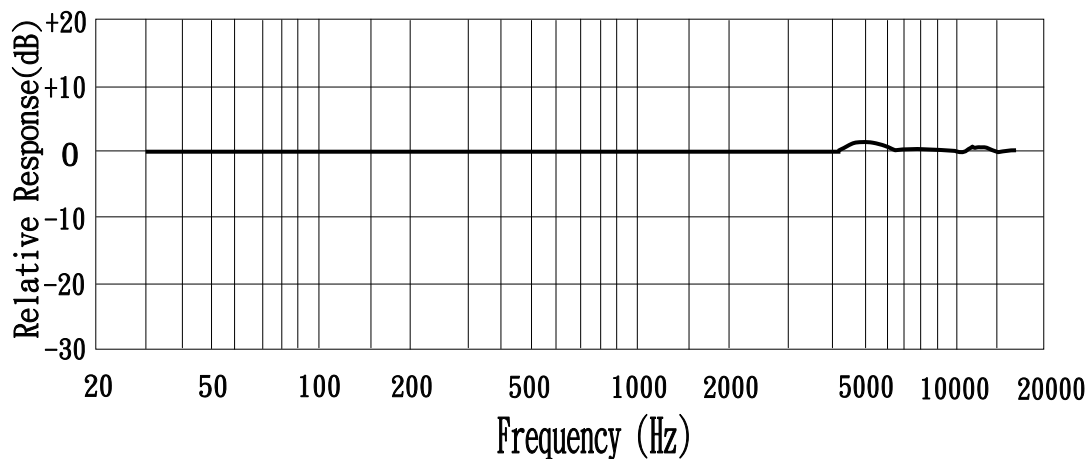
Features:Conformity RoHS Directive(2002/95/EC) Requests.

1. ELECTRICAL CHARACTERISTICS

Test Condition:(Vs=2.0 V,RL=2.2K Ω ,Ta=20 $\pm$ 2 $^{\circ}$ C ,R.H.=65 $\pm$ 5%)

Directivity : Omnidirectional							
No	Parameter	Symbol	Condition	Limit			Unit
				Min	Center	Max	
1.1	Sensitivity	S	F=1KHz,S.P.L.=1Pa 0dB=1V/Pa	-45	-42	-39	dB
1.2	Output Impedance	Zout	F=1KHz			2.2	K Ω
1.3	Current Consumption	IDss	VS=2.0V, L= 2.2K Ω			500	μ A
1.4	Signal to Noise Ratio	S/N	S:(F=1KHz,S.P.L.=1Pa) N:(A-Weighted Curve)	60			dB
1.5	Decreasing Voltage	Δ S-VS	VS=1.5V to 3.0V			-3	dB

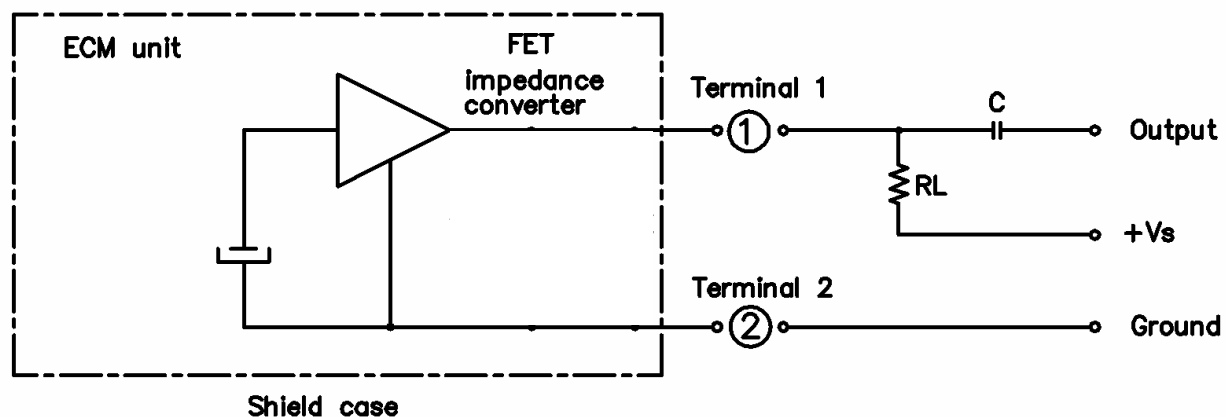
1.6 Typical Frequency Response Curve Limit



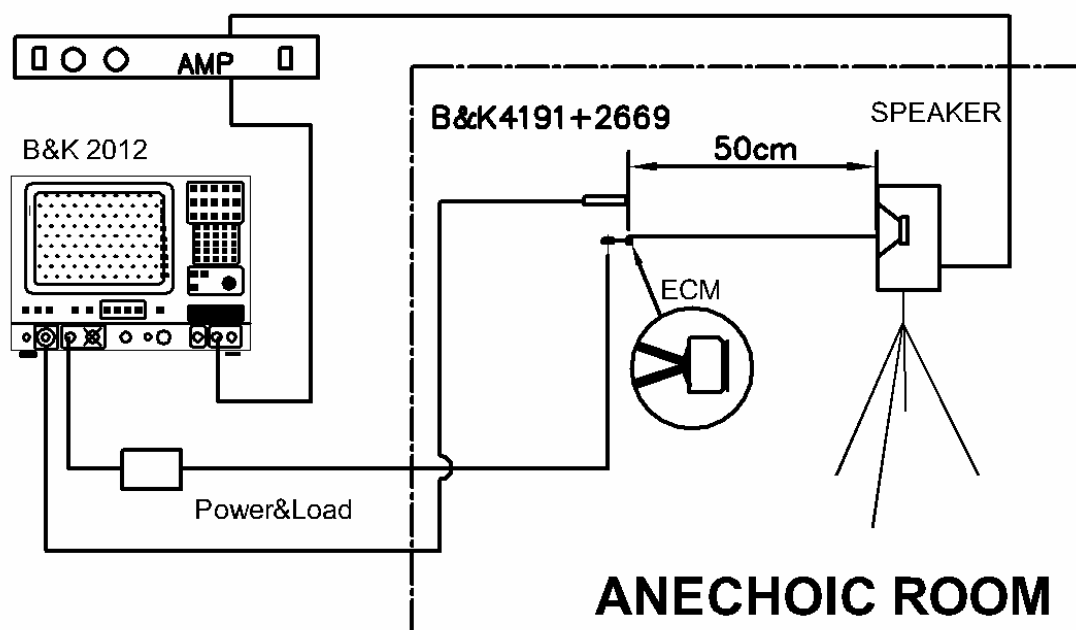
◎Frequency: 50~16,000Hz

◎Max Voltage: 10V

2.MEASUREMENT CIRCUIT



3.MEASUREMENT METHOD

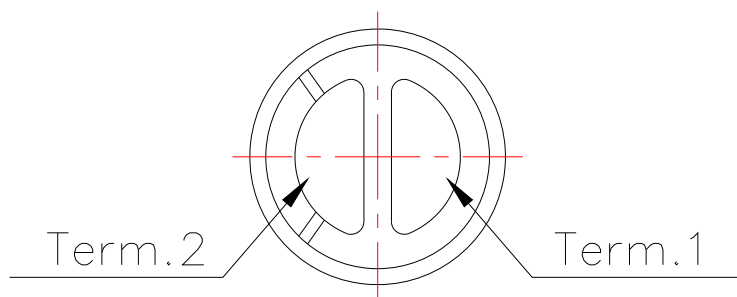
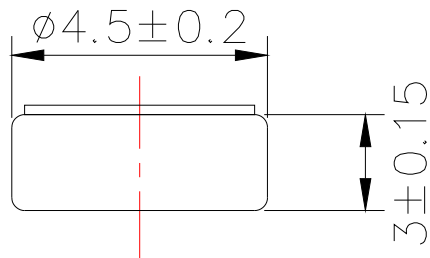
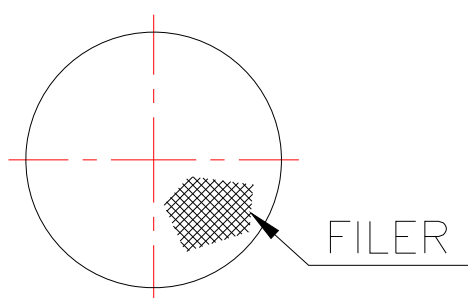


4.ASS'Y DRAWING

4.1 Soldering Standard : $330\pm5^{\circ}\text{C}$ / Max. 2 seconds

4.2 Mechanical Layout and Dimensions :

Unit : mm



	SPECIFICATIONS	MODEL NO OBO-40SN-0B-012
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5. TEMPERATURE CONDITIONS

5.1 Operating Temperature Range: -20°C ~ +60°C

5.2 Storage Temperature Range: -25°C ~ +70°C

6. RELIABILITY TEST

Vibration Test	To be no interference in operation after vibrations, 10Hz to 55Hz for 1 minute full amplitude 1.5mm, for 2 hours at 3 axes .
Drop Test	The microphone unit without packaged must be subjected to each 3one time from 1 drops at 3 axes,the height of 1 meter to 20 mm thick wooden board.
Temperature	(a) After exposure at +70°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (b) After exposure at -25°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°C)
Humidity Test	After exposure at +60°C and 90%~95% relative humidity for 240hours. sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°C)
Temperature Cycle Test	After exposure at +70°C for 1 hr, from +70°C to +25°C for 0.5 hr ,at +25°C for 1 hr, from +25°C to-20 °C for 0.5 hr ,at -20°C for 1 hr, from -20°C to +25°C for 0.5 hr , after 10 cycles , sensitvity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°C)

7. CONCEPT OF UNIT

The difference between concept of unit "Pascal" and the one of unit " μbar".

can be explained as follows. in calibrating the sensitivity of ECMS.

the sensitivity is manifested differently according as the unitis "Pascal"

or " μbar". That is the sensitivity will be increased by 20dB in the usage

of unit "Pascal". Example : -62dB(0dB=1V/μbar)=-42dB(0dB=1V/Pa)

檔名: OBO-40SN-0B-012.doc
目錄: D:\kidd-data\麥克風規格書
範本: C:\Documents and
Settings\kidd.OBOPRO2\Application
Data\Microsoft\Templates\Normal.dot
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作者: H08108
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