OBO Pro.2	SPECIFICATIONS	MODEL NO OBO-40SN-0B-012
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 1 OF 5

ALTERNATION HISTORY							
Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
——	JUL,15,10	———	暫定	Provisional Document	5	蔡愛國	謝明福

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

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

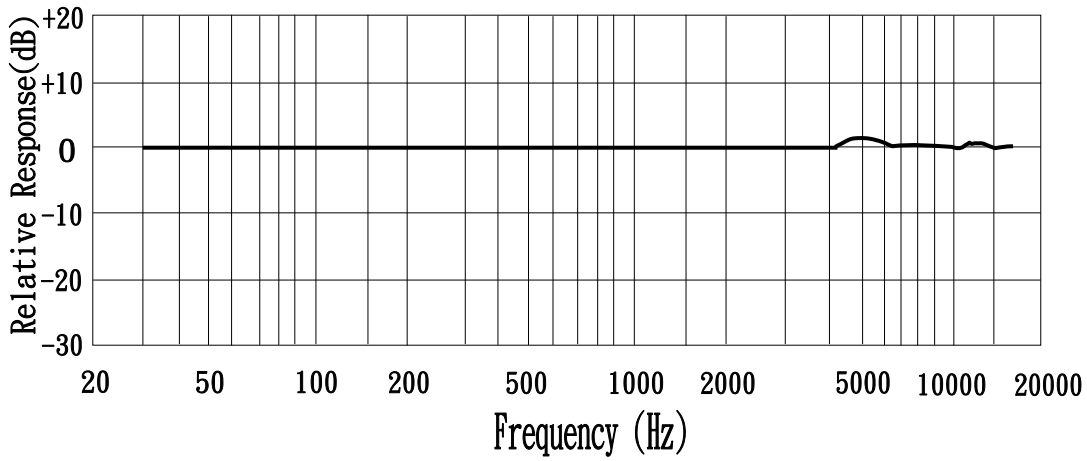
Features:Conformity RoHS Directive(2002/95/EC) Requests.

1. ELECTRICAL CHARACTERISTICS

Test Condition:(Vs=2.0 V,RL=2.2KΩ,Ta=20±2℃,R.H.=65±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	KΩ
1.3	Current Consumption	IDss	VS=2.0V, L= 2.2KΩ			500	μA
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	△S-VS	VS=1.5V to 3.0V			-3	dB

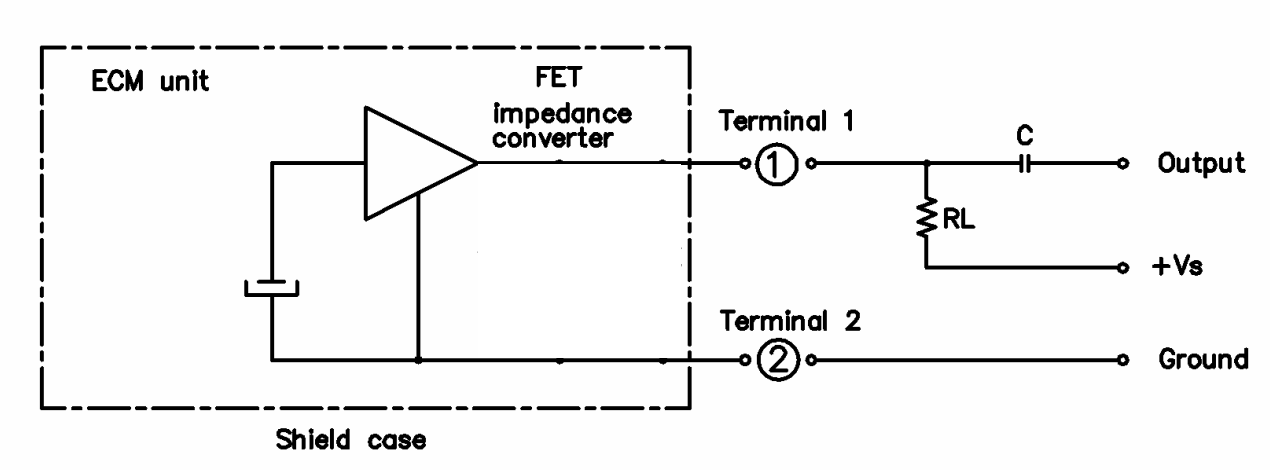
1.6 Typical Frequency Response Curve Limit



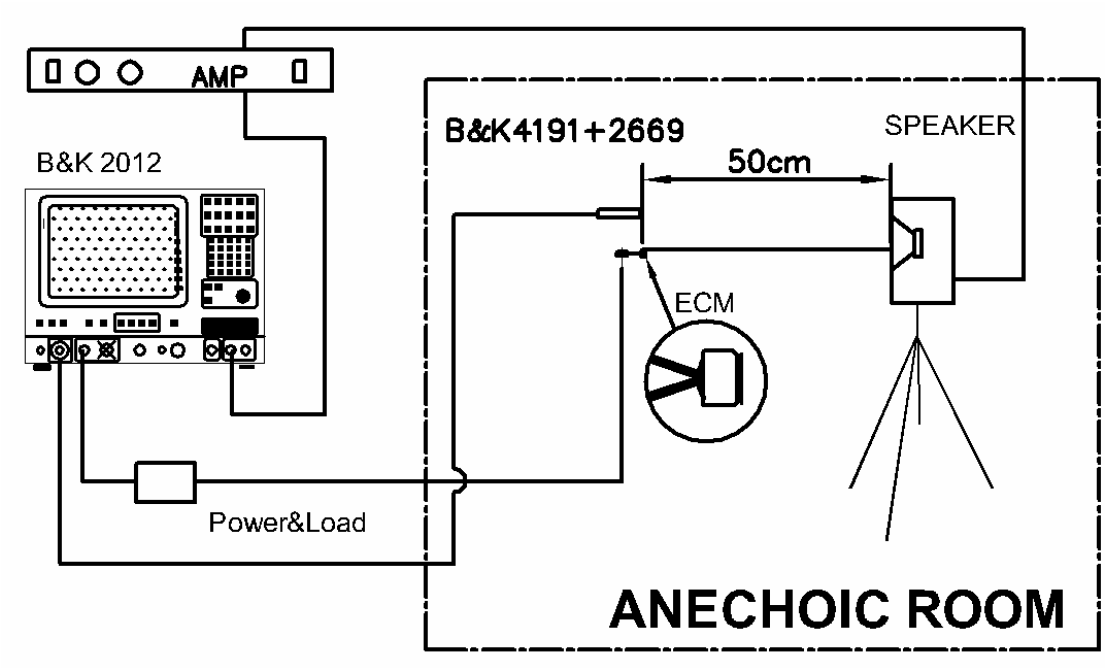
◎Frequency: 50~16,000Hz

◎Max Voltage: 10V

2.MEASUREMENT CIRCUIT



3.MEASUREMENT METHOD

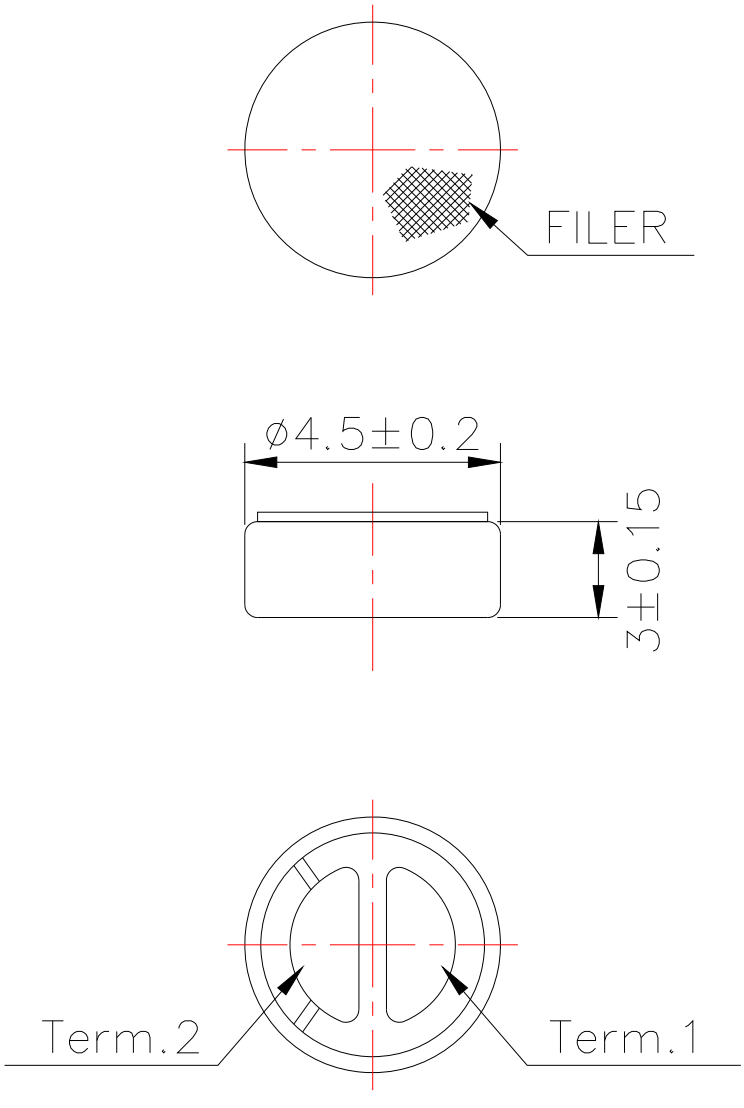


4.ASS'Y DRAWING

4.1 Soldering Standard : 330±5℃/ Max. 2 seconds

4.2 Mechanical Layout and Dimensions :

Unit : mm



5. TEMPERATURE CONDITIONS

5.1 Operating Temperature Range: -20℃ ~ +60℃

5.2 Storage Temperature Range: --25℃ ~ +70℃

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 axises .
Drop Test	The microphone unit without packaged must be subjected to each 3one time from 1 drops at 3 axises,the height of 1 meter to 20 mm thick wooden board.
Temperature	(a) After exposure at +70℃ for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (b) After exposure at -25℃ for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25℃)
Humidity Test	After exposure at +60℃ 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℃)
Temperature Cycle Test	After exposure at +70℃ for 1 hr, from +70℃ to +25℃ for 0.5 hr ,at +25℃ for 1 hr, from +25℃ to-20 ℃ for 0.5 hr ,at -20℃ for 1 hr, from -20℃ to +25℃ 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℃)

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)

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