OBO Pro.2	SPECIFICATIONS	MODEL NO OBO-04FN-0B-004
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 1 OF 6

ALTERNATION HISTORY

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	MAR.09,2010	DG1003007	C	Change the Packing	6	杨冉	谢明福
※2	MAY.31,2018	DG1805005	D	Change PCB material	6	徐潇	林建宏

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
D	MAY.31,2018	徐 潇	林建宏	林建宏

MODEL NO : OBO-04FN-0B-004

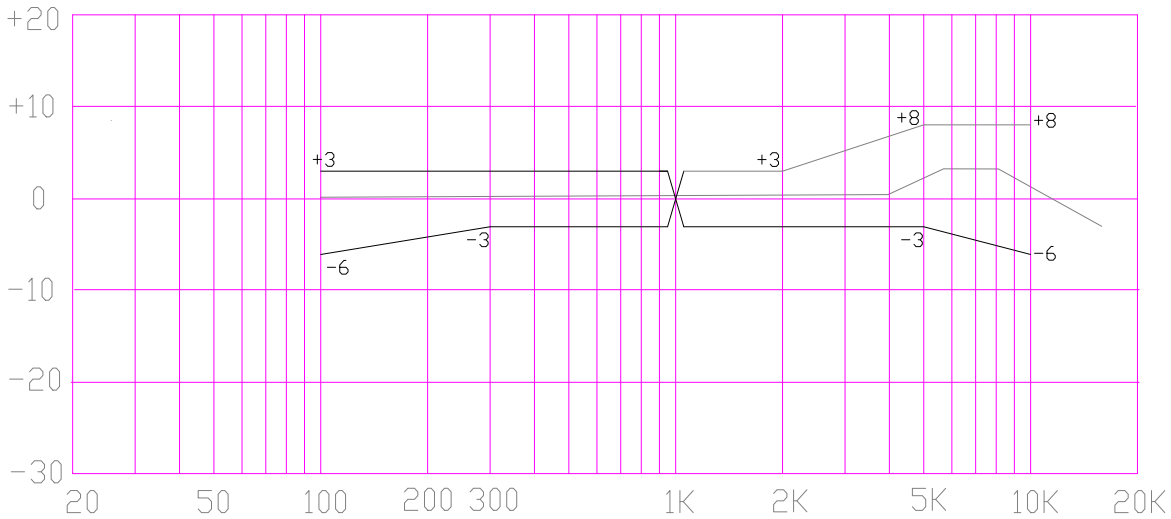
Features:Conformity RoHS Directive(2011/65/EU) Requests.

1. ELECTRICAL CHARACTERISTICS

Test Condition:(Vs=4.5 V,RL=1.0KΩ,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	-47	-44	-41	dB
1.2	Output Impedance	Zout	F=1KHz			1.0	KΩ
1.3	Current Consumption	IDss	VS=4.5V, L=1.0KΩ			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=3.0V to 1.5V			-3	dB

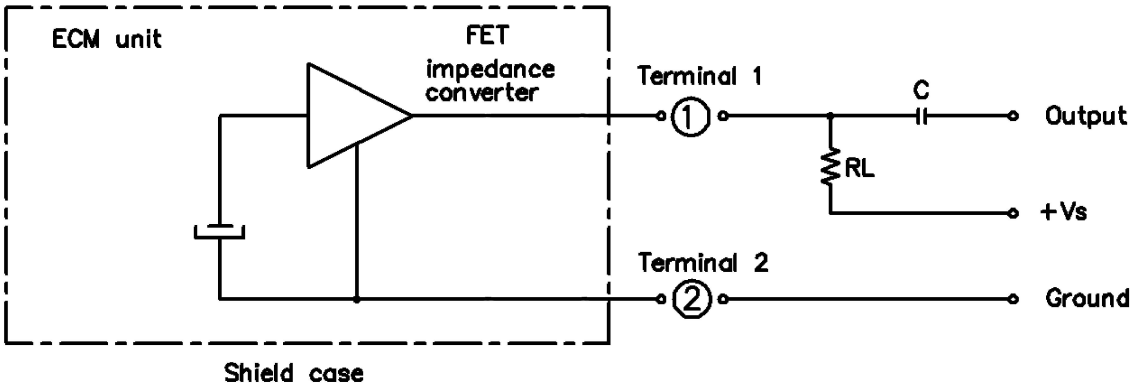
1.6 Typical Frequency Response Curve Limit



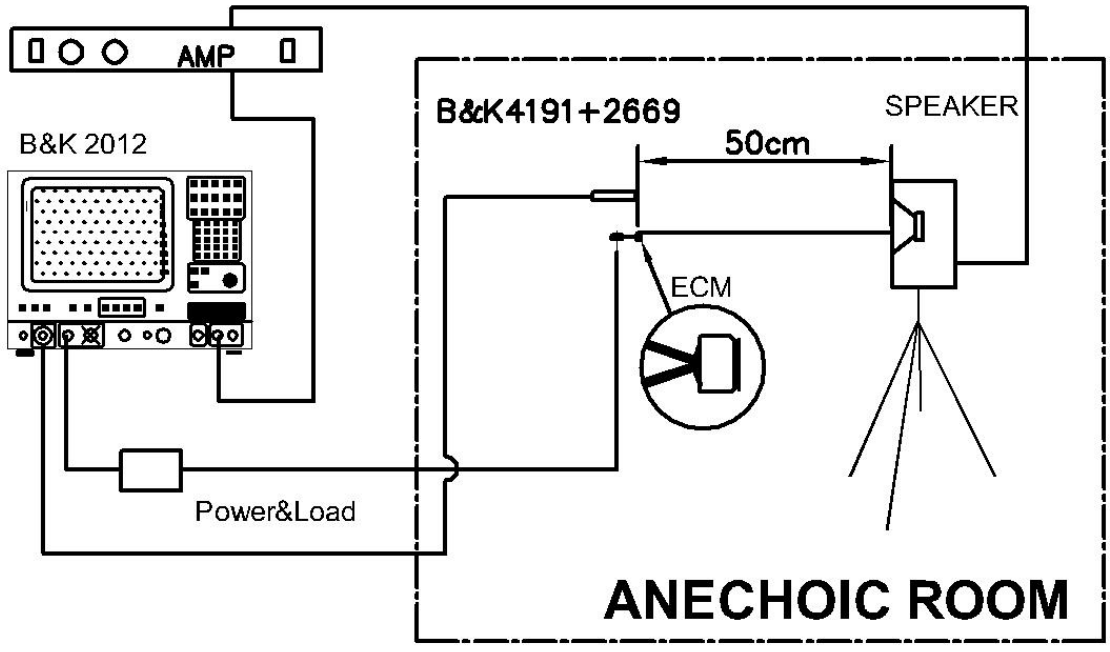
◎Frequency: 50~16,000Hz

◎Max Operatint Voltage: 10V

2.MEASUREMENT CIRCUIT



3.MEASUREMENT METHOD

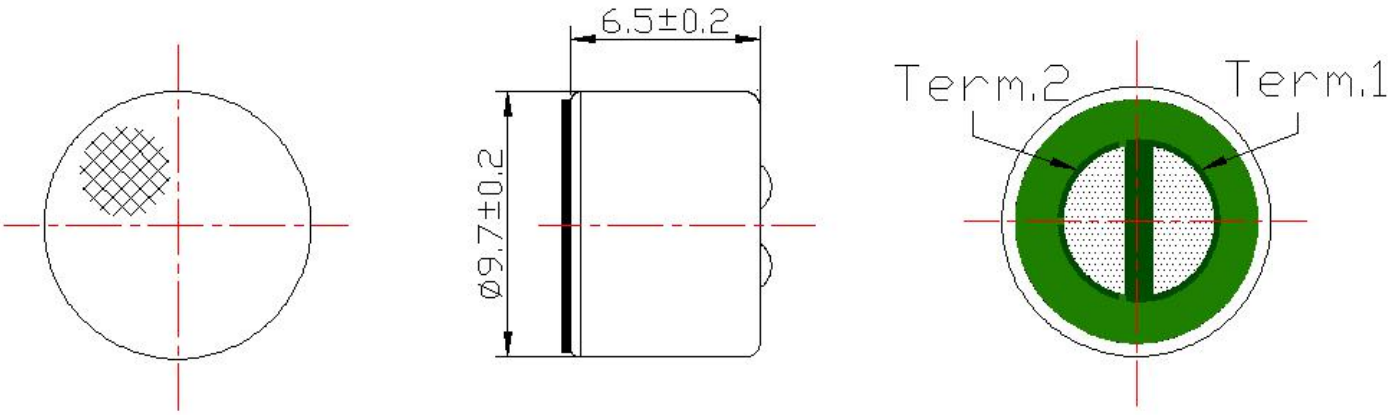


4.ASS'Y DRAWING

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

4.2 Mechanical Layout and Dimensions :

※2 Unit: mm

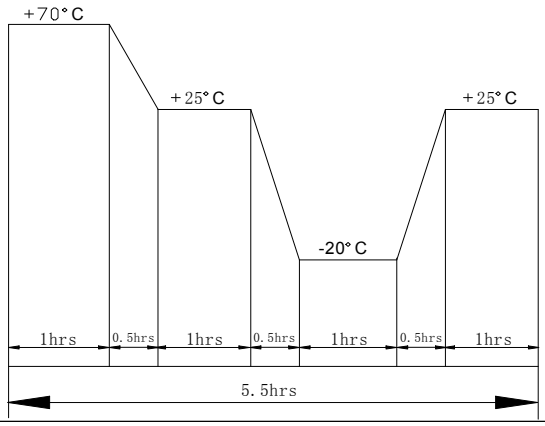


5. TEMPERATURE CONDITIONS

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

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

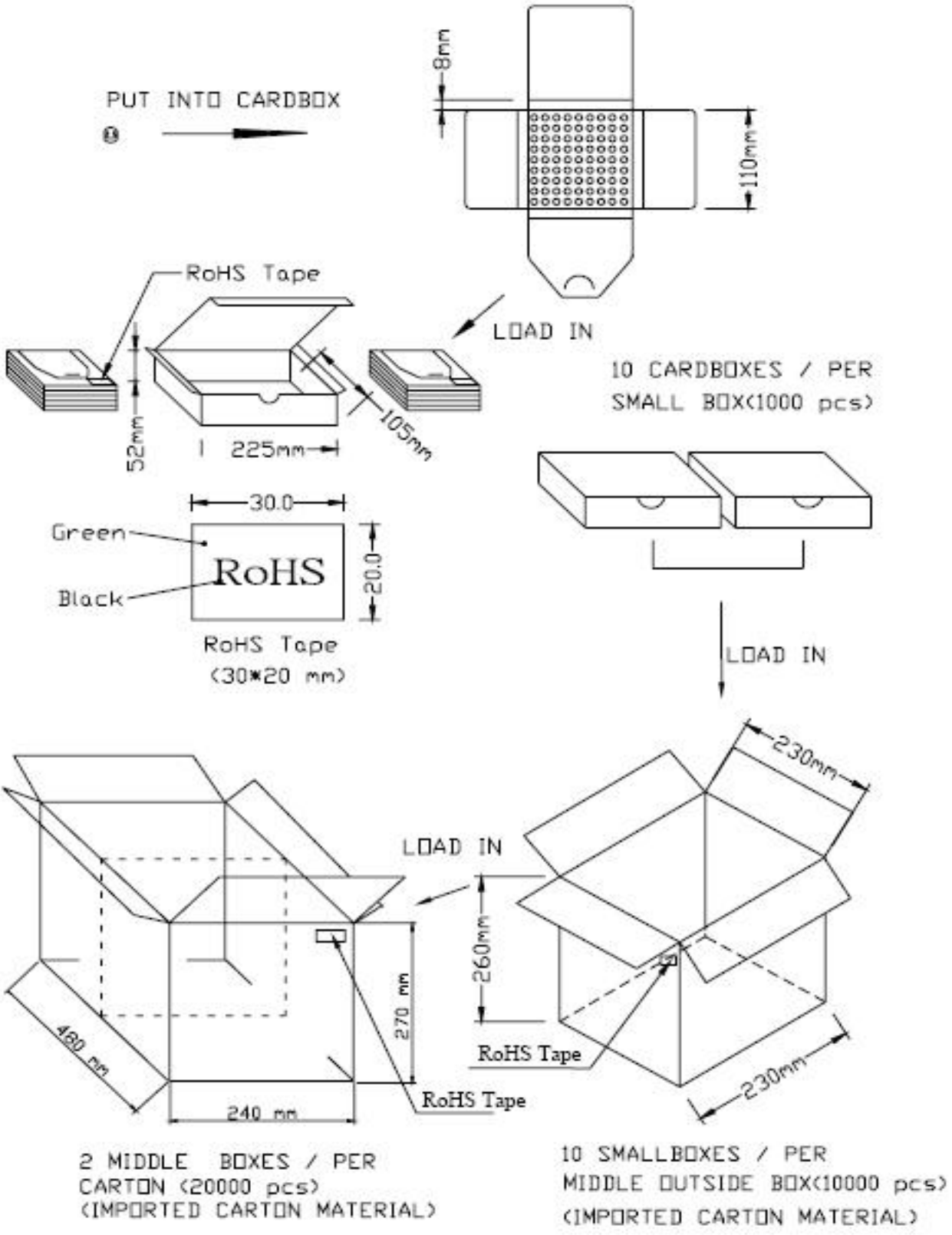
6. RELIABILITY TEST

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 3drops 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	

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 : -64dB(0dB=1V/μbar)=-44dB(0dB=1V/Pa)

8. PACKAGING


PUT INTO CARDBOX
8mm
110mm
RoHS Tape
LOAD IN
10 CARDBOXES / PER
SMALL BOX(1000 pcs)
52mm
225mm
105mm
30.0
Green
RoHS
Black
20.0
RoHS Tape
(30*20 mm)
LOAD IN
230mm
LOAD IN
260mm
480 mm
270 mm
240 mm
RoHS Tape
RoHS Tape
230mm
2 MIDDLE BOXES / PER
CARTON (20000 pcs)
(IMPORTED CARTON MATERIAL)
10 SMALLBOXES / PER
MIDDLE OUTSIDE BOX(10000 pcs)
(IMPORTED CARTON MATERIAL)