OBO Pro.2	SPECIFICATIONS	MODEL NO OBO-45KP-2B-012
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 1 OF 6

ALTERNATION HISTORY							
Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
－－	JUL.11,2011	－－－	A	New Document	6	陸志眉	謝明福

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
A	JUL.11,2011	陸志眉	王志偉	謝明福

MODEL NO : OBO-45KP-2B-012

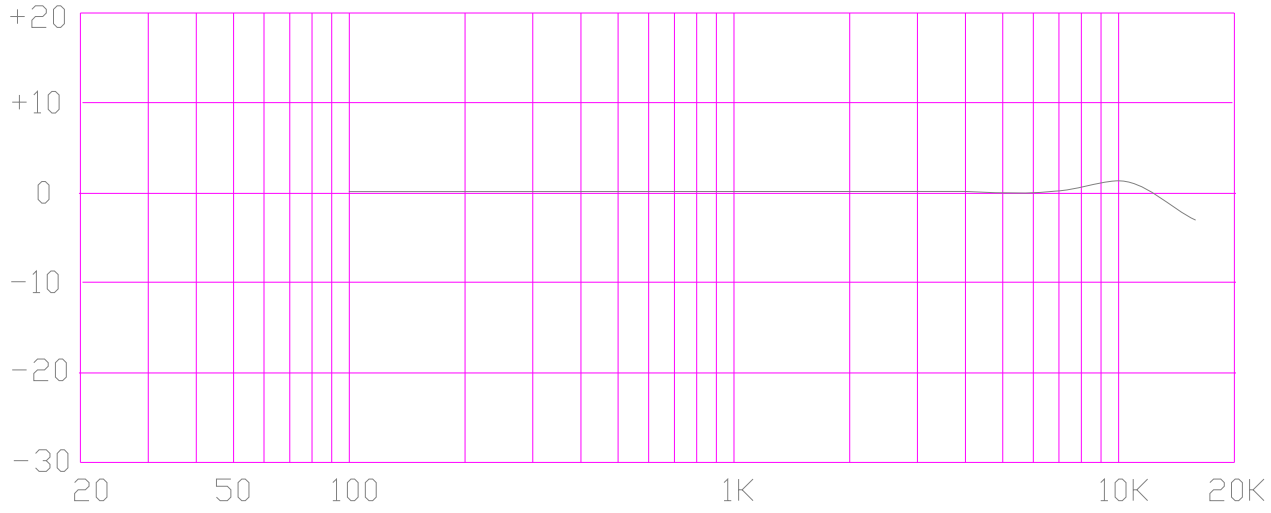
Features:Conformity RoHS Directive(2002/95/EC) Requests.

1. ELECTRICAL CHARACTERISTICS

Test Condition:(Vs=2.0V,RL=2.2KΩ,Ta=25±5℃,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 1Pa			2.2	KΩ
1.3	Current Consumption	IDss	VS=2.0V			0.5	mA
1.4	Signal to Noise Ratio	S/N	S:(F=1KHz,S.P.L=1Pa) N:(A-Weighted Curve)	60			dB
1.5	Sensitivity reduction	△S-VS	VS=1.5V to 3.0V			-3	dB

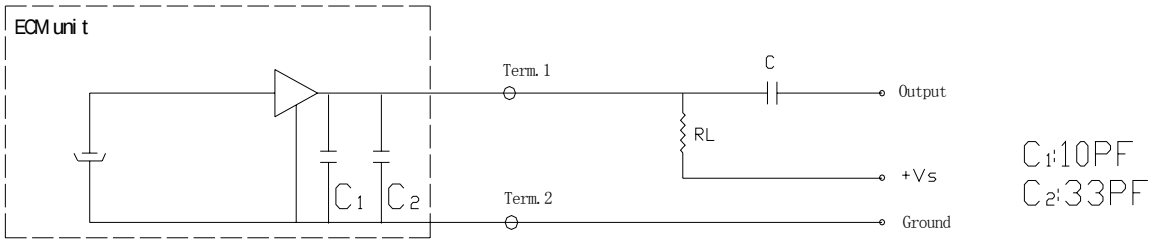
1.6 Typical Frequency Response Curve Limit



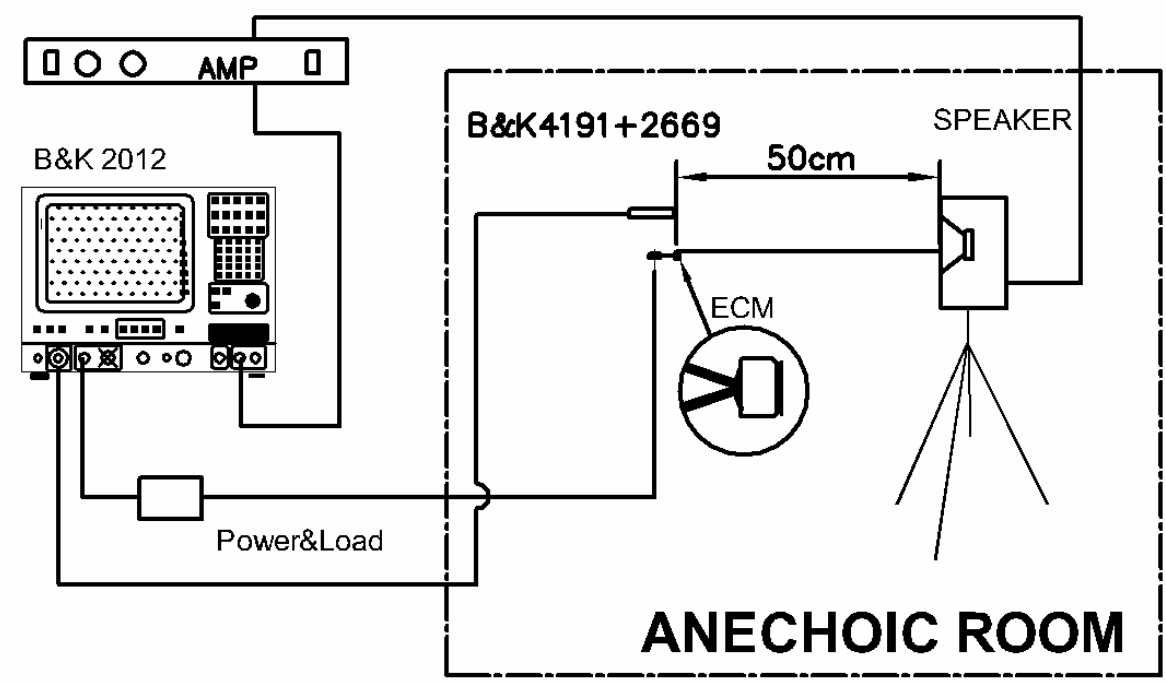
◎Frequency: 50~16,000Hz

◎Max. Operating Voltage: 10V

2.MEASUREMENT CIRCUIT



3.MEASUREMENT METHOD

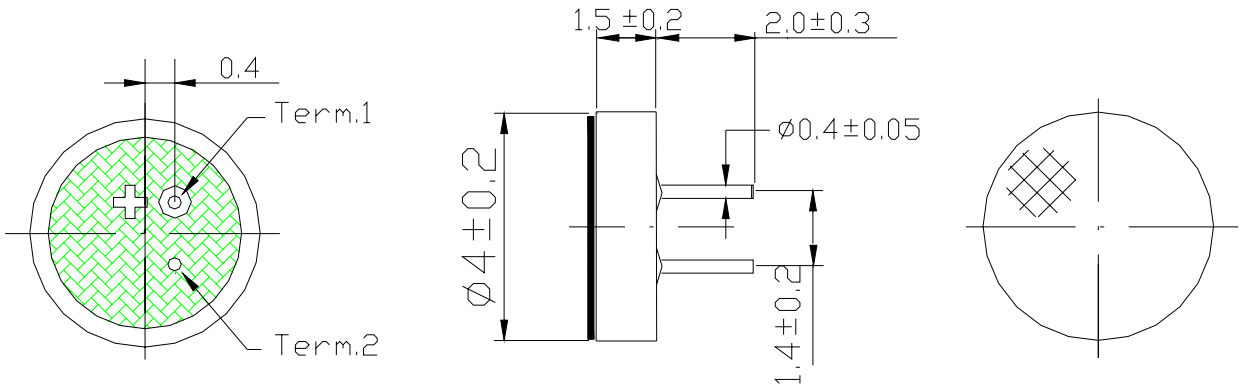


4.ASS'Y DRAWING

4.1 Soldering Standard : 330±5℃ / Max. 2 ±0.5seconds

4.2 Mechanical Layout and Dimensions :

Unit: mm

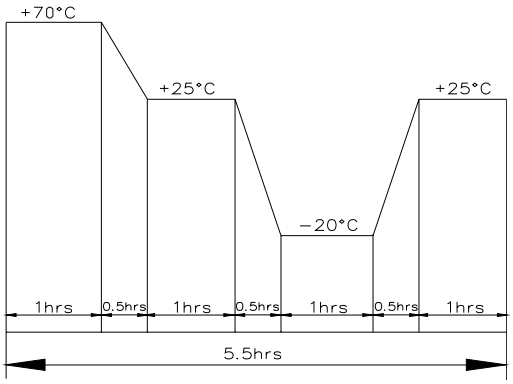


5. TEMPERATURE CONDITIONS

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

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

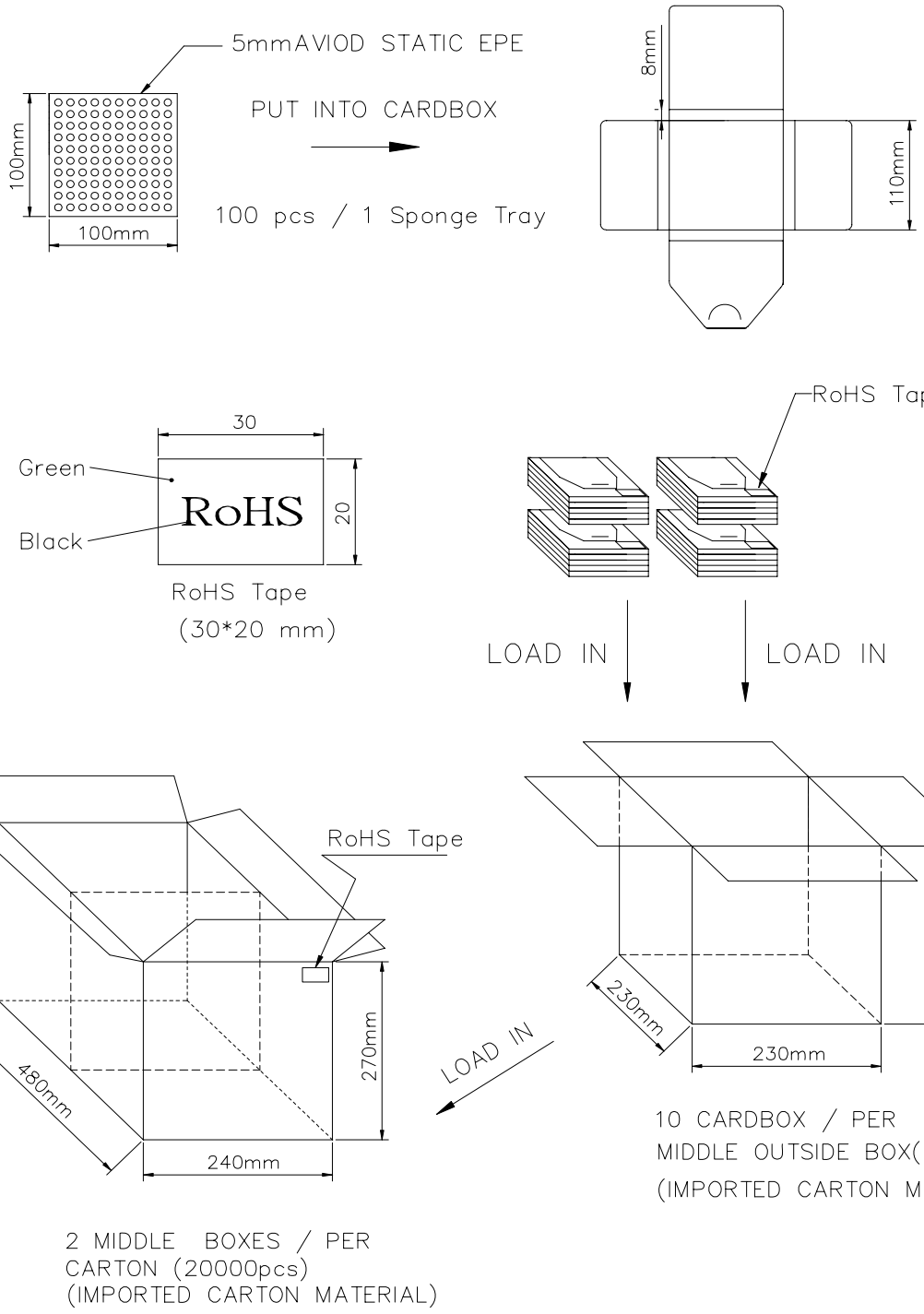
6. RELIABILITY TEST

Vibration Test	The part shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.
Drop Test	The microphone unit without packaged must be subjected to each 3 drops at 3 axises from the height of 1 meter to 20 mm thick wooden board.
Temperature	(a) High Test:After exposure at +70℃ for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (b) Low Test: 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 85%~95% relative humidity for 240hours. (The measurement to be done after 6 hours of conditioning at 25℃)
Temperature Cycle Test	The part shall be subjected to 10cycles.One cycle shall be consist of: 

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)

8. PACKAGING


5mmAVIOD STATIC EPE
PUT INTO CARDBOX
100 pcs / 1 Sponge Tray
100mm
100mm
8mm
110mm
30
Green
Black
RoHS
20
RoHS Tape
(30*20 mm)
RoHS Tape
LOAD IN
LOAD IN
RoHS Tape
480mm
270mm
240mm
LOAD IN
260mm
230mm
230mm
10 CARDBOX / PER
MIDDLE OUTSIDE BOX(10000 pcs)
(IMPORTED CARTON MATERIAL)
2 MIDDLE BOXES / PER
CARTON (20000pcs)
(IMPORTED CARTON MATERIAL)