OBO PRO.2 INC.

文件發行章

啓 弘 股 份 有 限 公 司

No. 224-9, LANE 105, YUNG-FENG ROAD, PA-TE CITY, TAOYUAN, TAIWAN, R.O.C.

TEL: 886-3-361-4436

FAX: 886-3-361-4437

E-MAIL: obo@obopro2.com

Website: www.obo.com.tw

Specification for Approval

NO.:

Part Name :

Electret Condenser Microphone

Model No.:

OBO-64EC-0B-002

Date:

MAY.02,2002

Page	Cover Page	1	2	3	4	5	6	7	8	9	10	11	12	
Version	E	Ε	Ε	Ε	E									

Please kindly make approval of our samples, And return this form by fax or airmail, Thanks for your kind attention and co-operation

(請對我們公司樣品給予承認,承認後加蓋承認章以傳真或郵寄方式回覆,謝謝貴公司的支持與合作)

Customer Name :

Customer Part No. :

Designed By	Checked By	Approval By
		<u> </u>

文件發行章

OBO PRO.2 INC.

啓 弘 股 份 有 限 公 司

No. 224-9, LANE 105, YUNG-FENG ROAD, PA-TE CITY, TAOYUAN, TAIWAN, R.O.C.

TEL: 886-3-361-4436

FAX: 886-3-361-4437

E-MAIL: obo@obopro2.com Website: www.obo.com.tw

SPECIFICATION

1.ELECTRICAL CHARACTERISTICS

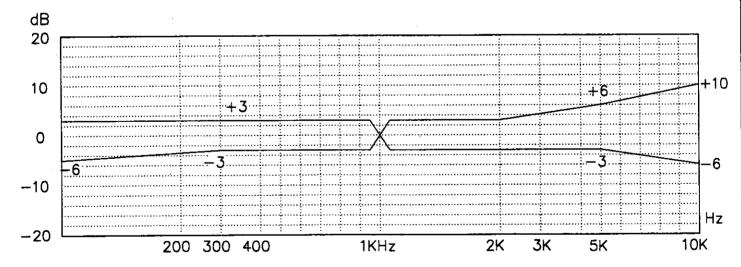
Model No.: OBO-64EC-0B-002

TEMP=20±2*

Room Humidity=65±5%

				Limit],, ,,
No	Parameter	Symbol	Condition	Min	Center	Max	Unit
1.1	Sensitivity	s	F=1KHz,S.P.L.=1Pa OdB=1V/Pa	-43	-40	-37	dB
1.2	Output Impedance	Zout	F=1KHz			2.2	ΚΩ
1.3	Current Consumption	loss	VS=2.0V, RL=2.2KΩ			500	μΑ
1.4	Signal to Noise Ratio	S/N	S: (F=1KHz, S.P.L=1Pa) N: (A-Weighed Curve)	60			dΒ
1.5	Decreasing Voltage	∆s−vs	VS=3.0V to 1.5V			-3	dB

1.6 Typical Frequency Response Curve



© Frequency: 50~16,000Hz

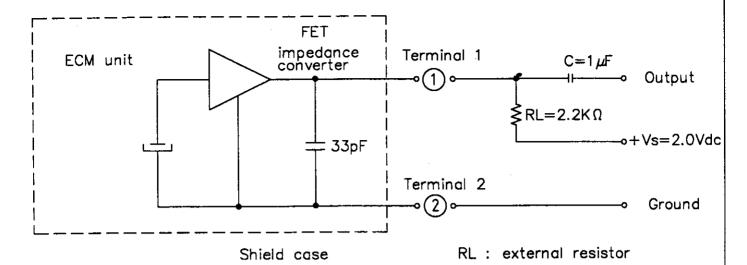
Operating Voltage: 1V to 10V

Max. Input S.P.L.: 110dB

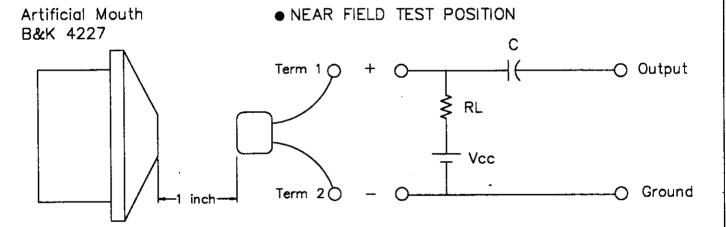
Drawing by	Checked by	Approved by	DWG. NO.	Version	Page No.	Date
陳建合	海仁男 5/2 62	唐瑞政 5/6	64EC-0B-002	E	1	MAY.02,2002
	W 3/6	,	-			

文件發行章

2.Measurement Circuit

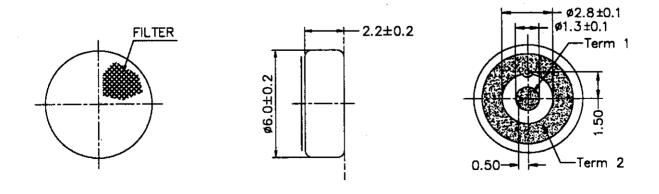


3. Measurement Method

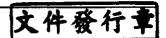


Pressure at microphone position to be constant at OdBPa

4.APPEARANCE & DIMENSION(Unit:mm)



Drawing by	Checked by	Approved by	DWG. NO.	Version	Page No.	Date
陳建合	馬仁男 5/202	西瑞政 %	64EC-0B-002	E	2	MAY.02,2002
	02811	<u> </u>	•	-		



5. TEMPERATURE CONDITIONS

5.1 Operating Temperature Range : $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

5.2 Storage Temperature Range : -40°C ~ +85°C

6.RELIABILITY TEST

Vibration Test	To be no interference in operation after vibrations, 10Hz to 55Hz for 1 minute full amplitude 1.52mm, for 2 hours at 3 axises.
Drop Test	To be no interference in operation after dropped to concrete floor each one time from 1 meter height at three directions in state of packing.
Temperature Test	 (a)After exposure at 85°C for 240 hours, sensitivity to be within ±3dB from initial sensitivity. (b)After exposure at -40°C for 240 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20°C.)
Humidity Test	After exposure at 40°C and 90~95% relative humidity for 240 hours. sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20°C.)
Temperature Cycle Test	After exposure at -20°C for 1 hour, at 20°C for 10 minutes, at +70°C for 1 hour, at 20°C for 10 minutes, 5 cycles, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 2 hours of conditioning at 20°C.)

7.CONCEPT OF UNIT

The difference between concept of unit "Pascal" and the one of unit " μ bar"can be explained as follows. in calibrating the sensitivity of ECMS. the sensitivity is manifested differently according as the unitis "Pascal" or " μ bar". That is the sensitivity will be increased by 20dB in the usage of unit "Pascal". Example: $-62dB(0dB=1V/\mu bar)=-42dB(0dB=1V/Pa)$

Drawing by	Checked by	Approved by	DWG. NO.	Version	Page No.	Date
陳建合	西年男 %02 ア 15	唐瑞政 5亿	64EC-08-002	E	3	MAY.02,2002
- -	100 3/6	-1	<u></u>			

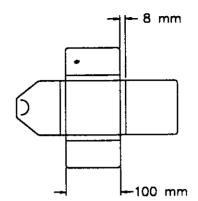
文件發行章

8.PACKAGING

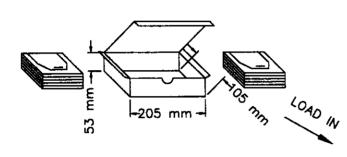




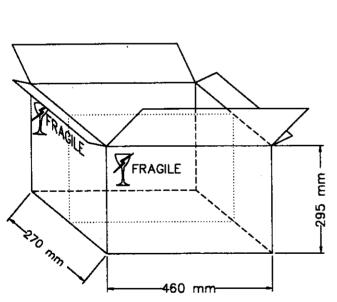
PUT INTO CARDBOX

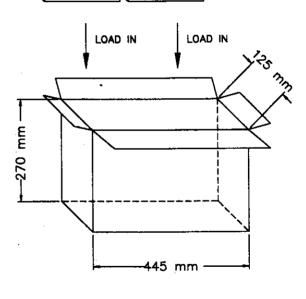


100 pcs / 1 Sponge Tray



10 CARDBOXES / PER SMALL BOX(1000 pcs)





2 MIDDLE BOXES / PER CARTON (20000 pcs) (IMPORTED CARTON MATERIAL) 10 SMALL BOXES / PER
MIDDLE BOX(10000 pcs)
(IMPORTED CARTON MATERIAL)

Drawing by	Checked by	Approved by	DWG. NO.	Version	Page No.	Date
陳廷合	再仁男 5/262 Defe 5/262	序端政 %	64EC-0B-002	E	4	MAÝ.02,2002
	1/6					