

OBO Pro.2	SPECIFICATIONS	MODEL NO. OBO-64KA-2B-012
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 1 OF 6

ALTERNATION HISTORY

Marking	Date	EC NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	MAY,10'05	0504001	B	Change item. 1.2.3.4.5.6 & Pb-free Soldering.	6		DARREN

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
B	MAY,10,2005	Lulu	DARREN	5/19/05

OBO Pro.2®	SPECIFICATIONS	MODEL NO. OBO-64KA-2B-012
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 2 OF 6

MODEL NO : OBO-64KA-2B-012

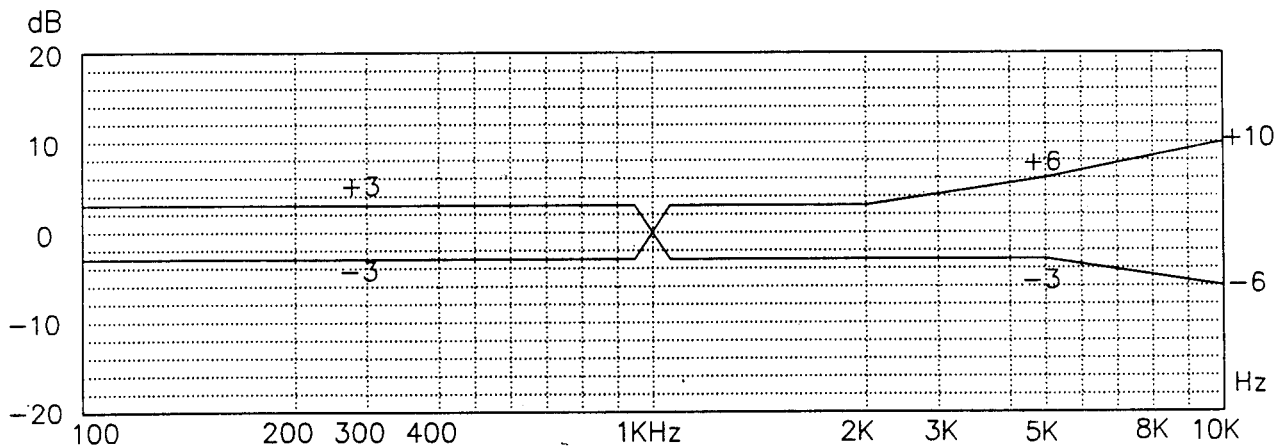
Features : Pb-free Soldering Type ※1

1. ELECTRICAL CHARACTERISTICS

Test Condition : (Vs=2.0V, RL=2.2KΩ, Ta=20±2°C, R.H.=65±5%)

Type : Back Electret Condenser Microphone ※1							
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	I _{oss}	VS=2.0V, RL=2.2KΩ			500	μA
1.4	Signal to Noise Ratio ※1	S/N	S: (F=1KHz, S.P.L=1Pa) N: (A-Weighted Curve)	58			dB
1.5	Decreasing Voltage ※1	ΔS-VS	VS=2.0V to 1.0V			-3	dB

1.6 Typical Frequency Response Curve Limit ※1

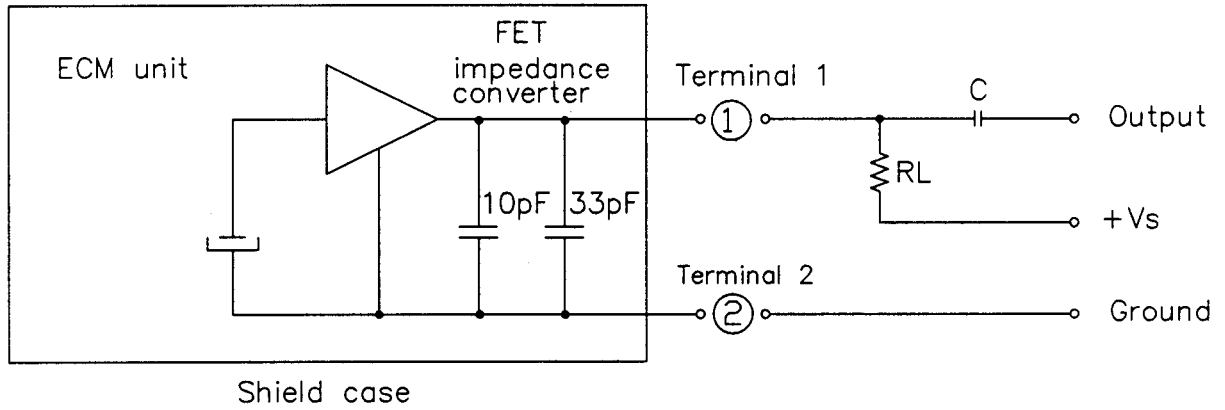


◎ Frequency : 50~16,000Hz

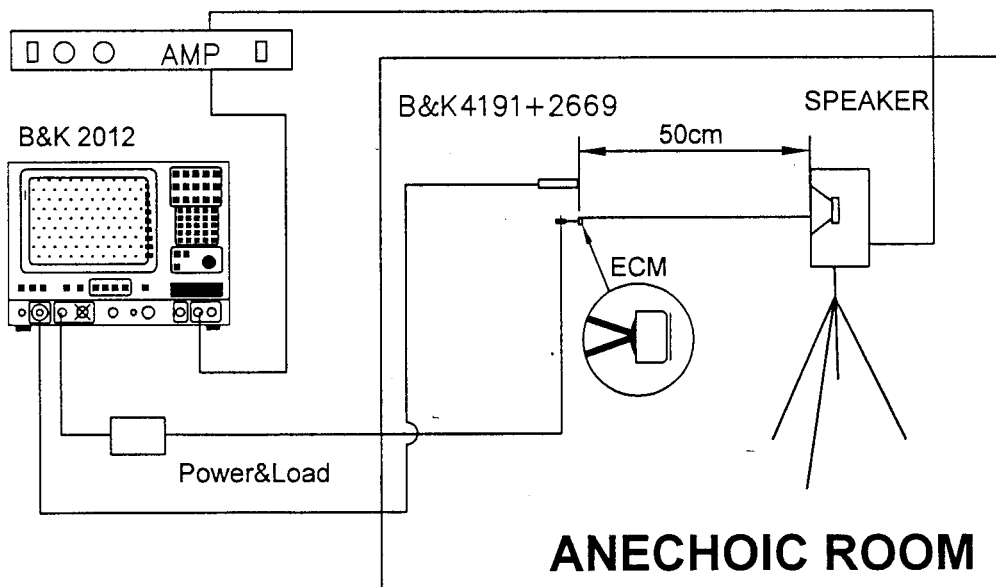
◎ Operating Voltage : 1.0V to 10V

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2. MEASUREMENT CIRCUIT ※1



3. MEASUREMENT METHOD ※1

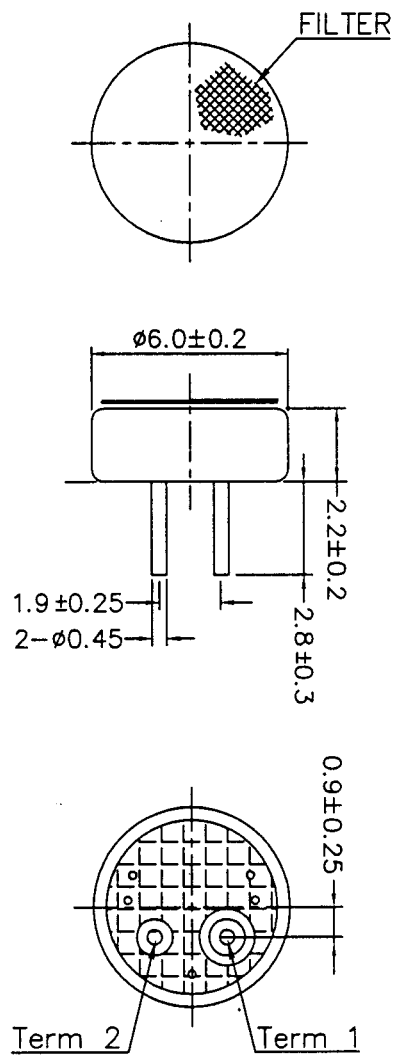


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4. MECHANICAL CHARACTERISTICS ※1

- 4.1 Soldering Standard : $315 \pm 5^{\circ}\text{C}$ / Max. 2 seconds
- 4.2 Weight : Appr. 0.2g
- 4.3 Mechanical Layout and Dimensions :

Unit : mm



5. TEMPERATURE CONDITIONS ※1

- 5.1 Operating Temperature Range : $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- 5.2 Storage Temperature Range : $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$

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6. RELIABILITY TEST ※1

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 axes.
Drop Test	The microphone unit without packaged must be subjected to each 5 drops at 3 axes from the height of 1 meter .
Temperature Test	(a)After exposure at 70°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (b)After exposure at -20°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 3 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 3 hours of conditioning at 20°C.)
Temperature Cycle Test	After exposure at -20°C for 2 hr, from -20°C to +25°C for 1hr ,at +25°C for 2hr, from +25°C to +70°C for 1hr ,at +70°C for 2hr , from +70°C to -20°C for 2hr , after 10 cycles , the sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 3 hours of conditioning at 20°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 unit is "Pascal" or "μbar". That is the sensitivity will be increased by 20dB in the usage of unit "Pascal". Example : $-62\text{dB}(0\text{dB}=1\text{V}/\mu\text{bar})=-42\text{dB}(0\text{dB}=1\text{V}/\text{Pa})$

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SHEET
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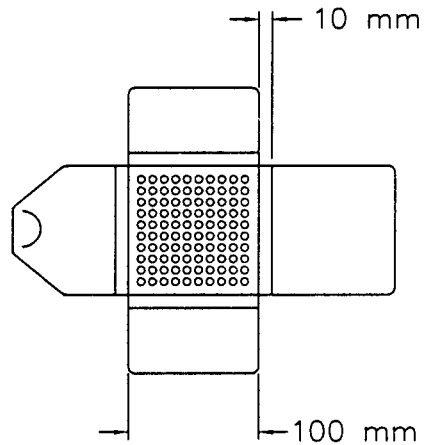
8. PACKAGING ※1



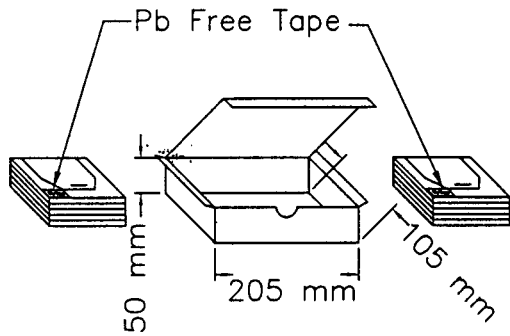
MIC

PUT INTO CARDBOX

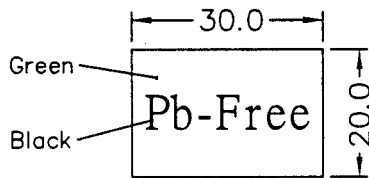
100 pcs / Tray



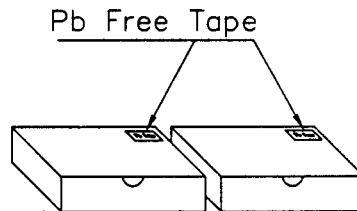
10 CARDBOXES / PER
SMALL BOX(1000 pcs)



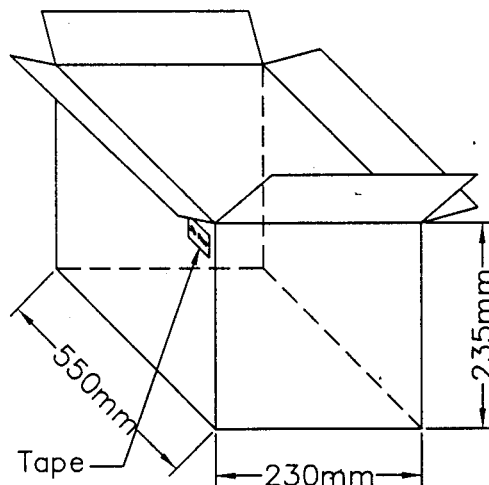
LOAD IN



Pb Free Tape
(30*20 mm)



LOAD IN



20 SMALL BOXES / PER
CARTON (20000 pcs)
(IMPORTED CARTON MATERIAL)