

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

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

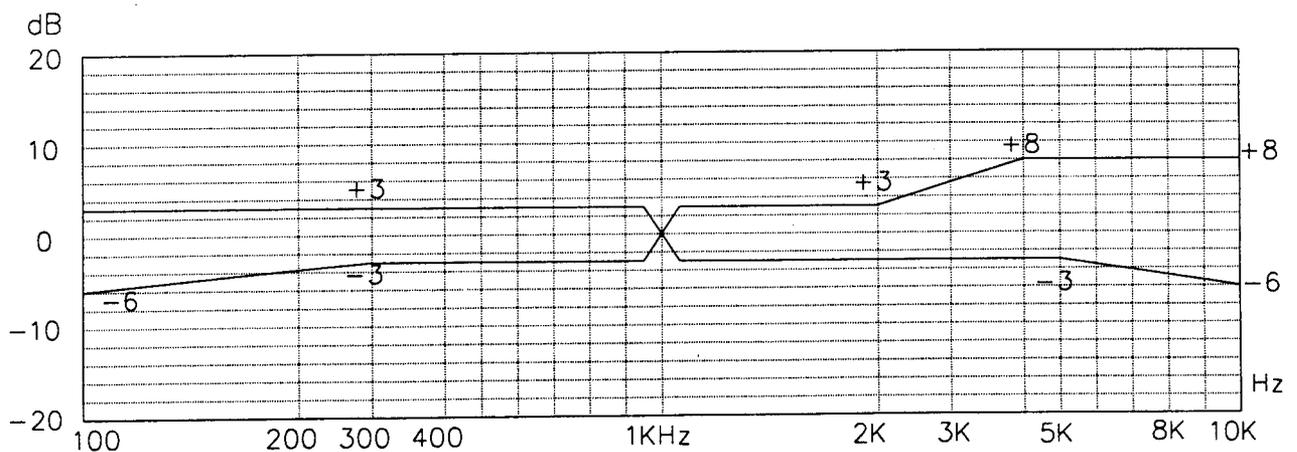
1. ELECTRICAL CHARACTERISTICS

Test Condition : (Vs=4.5V, RL=2.2KΩ, To=20±2°C, 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/Po	-41	-38	-35	dB
1.2	Output Impedance	Zout	F=1KHz			2.2	KΩ
1.3	Current Consumption	I _o ss	Vs=4.5V, RL=2.2KΩ			500	μA
1.4	Signal to Noise Ratio	S/N	S: (F=1KHz, S.P.L.=1Pa) N: (A-Weighted Curve)	58			dB
1.5	Decreasing Voltage	ΔS-Vs	Vs=3.0V to 1.5V			-3	dB

1.6 Typical Frequency Response Curve Limit



◎ Frequency : 50~16,000Hz

◎ Operating Voltage : 1.1V to 10V

OBO Pro.2

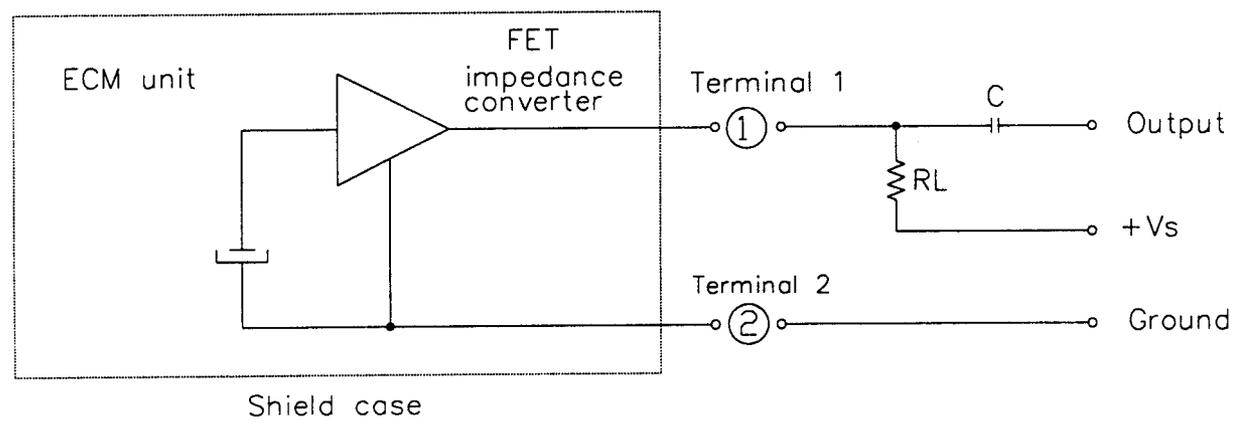
SPECIFICATIONS

MODEL NO.
OBO-04FN-0B-0NK

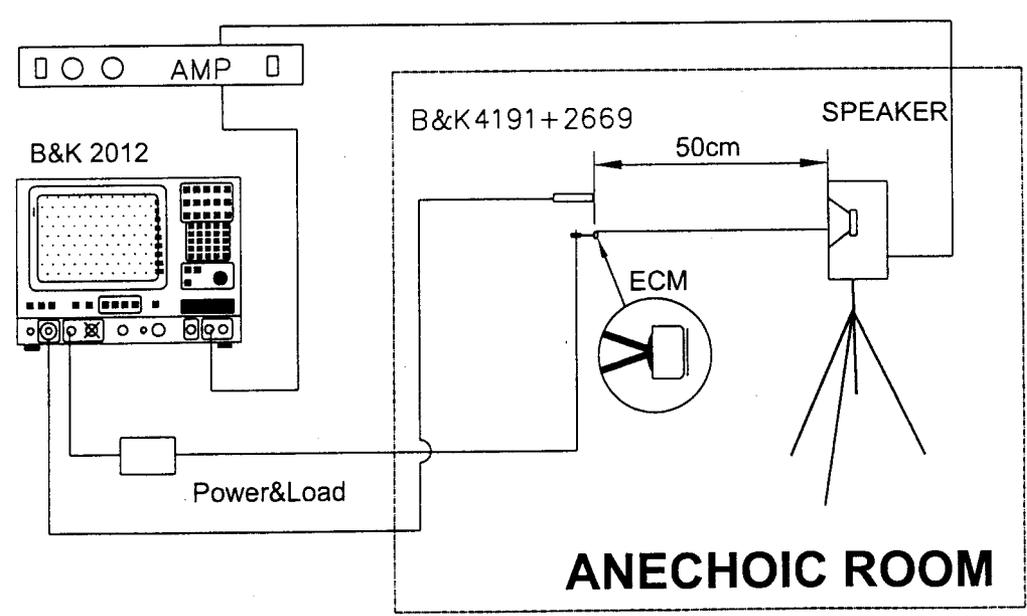
PART NAME
ELECTRET CONDENSER MICROPHONE

SHEET
3 OF 6

2. MEASUREMENT CIRCUIT



3. MEASUREMENT METHOD

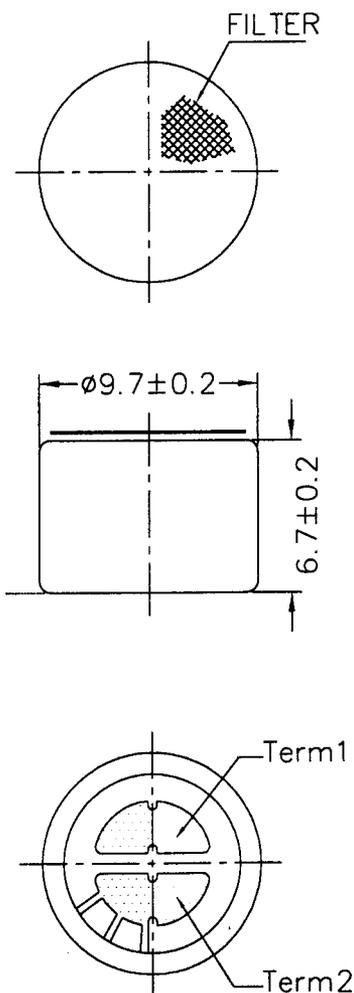


OBO Pro.2	SPECIFICATIONS	MODEL NO. OBO-04FN-0B-0NK
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 4 OF 6

4.MECHANICAL CHARACTERISTICS

- 4.1 Soldering Standard : $260\pm 5^{\circ}\text{C}$ / Max. 2 seconds
- 4.2 Weight : Appr.1.0g
- 4.3 Mechanical Layout and Dimensions :

Unit : mm



5. TEMPERATURE CONDITIONS

- 5.1 Operating Temperature Range : $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- 5.2 Storage Temperature Range : $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

OBO Pro.2®	SPECIFICATIONS	MODEL NO. OBO-04FN-0B-0NK
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 5 OF 6

6. RELIABILITY TEST

Vibration Test	To be no interference in operation after vibrations, 10Hz to 55Hz for full amplitude 1.5mm, for 2 hours at 3 axes .
Drop Test	The microphone unit without packaged must be subjected to each 3 drops at 3 axes,the height of 1 meter to 20 mm thick wooden board.
Temperature Test	(a)After exposure at +70°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (b)After exposure at -25°C for 72 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°C)
Humidity Test	After exposure at +60°C and 90±5% relative humidity for 240hours. sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°C)
Temperature Cycle Test	After exposure at +70°C for 1 hr, from +70°C to +25°C for 0.5hr ,at +25°C for 1hr, from +25°C to -20°C for 0.5hr ,at -20°C for 1hr , from -20°C to +25°C for 0.5hr , at +25°C for 1hr , after 10 cycles , the sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 6 hours of conditioning at 25°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 : $-62\text{dB}(0\text{dB}=1\text{V}/\mu\text{bar})=-42\text{dB}(0\text{dB}=1\text{V}/\text{Pa})$

	SPECIFICATIONS	MODEL NO. OBO-04FN-0B-0NK
	PART NAME ELECTRET CONDENSER MICROPHONE	SHEET 6 OF 6

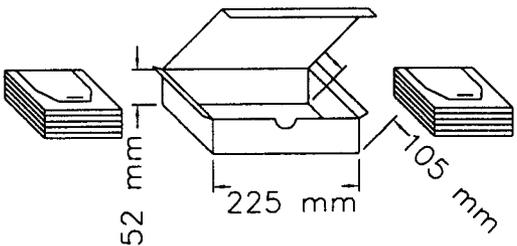
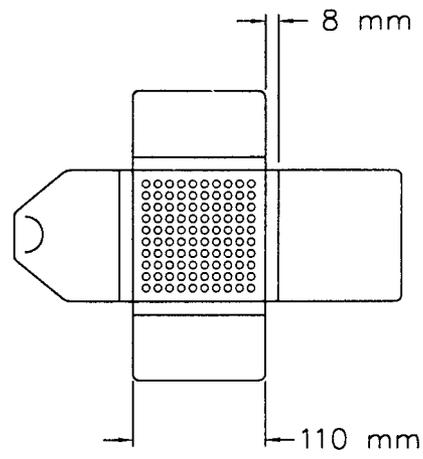
8. PACKAGING



PUT INTO CARDBOX

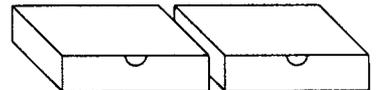


100 pcs / 1 Sponge Tray



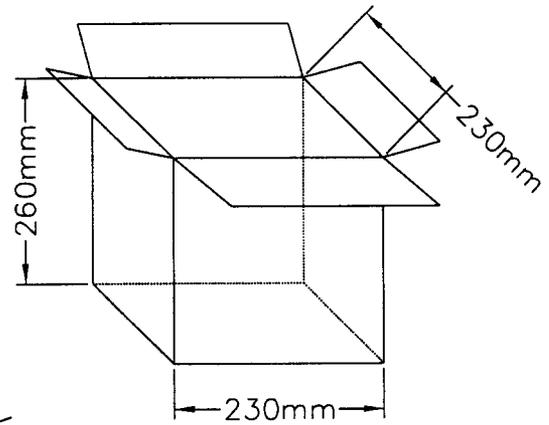
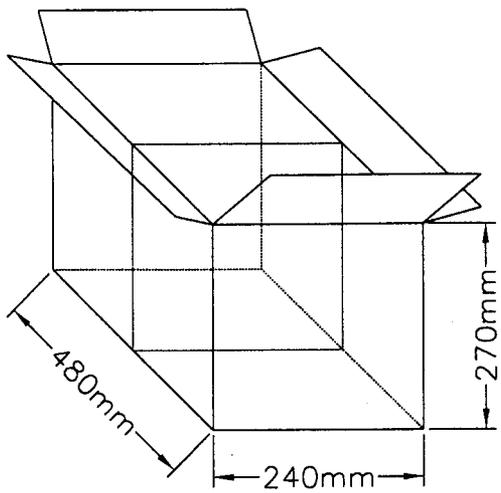
10 CARDBOXES / PER SMALL BOX(1000 pcs)

LOAD IN



LOAD IN

LOAD IN



LOAD IN

2 MIDDLE BOXES / PER CARTON (20000 pcs)
(IMPORTED CARTON MATERIAL)

100 CARDBOXES / PER MIDDLE BOX(10000 pcs)
(IMPORTED CARTON MATERIAL)