

SPECIFICATIONS

MODEL NO. OBO-20DN-0C-002

PART NAME

SHEET 1 OF 6

ELECTRET CONDENSER MICROPHONE

ALTERNATION HISTORY PREPARE APPROVE ECN. NO. REV. Marking Date **Description** Page BY Change the high size & Conformity RoHS Directive NOV,07'05 0510003 **%**1 6 D (2002/95/EC) Requests.

REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY		
D	NOV,07,2005	LULU	国际	有现代		

080.Pro.2

SPECIFICATIONS

MODEL NO. OBO-20DN-0C-002

PART NAME

ELECTRET CONDENSER MICROPHONE

SHEET 2 OF 6

MODEL NO: OBO-20DN-0C-002

%1

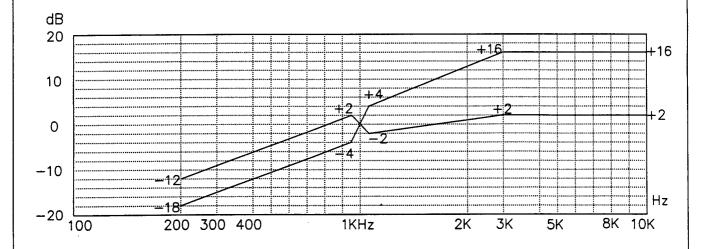
Features: Conformity RoHS Directive (2002/95/EC) Requests.

1. ELECTRICAL CHARACTERISTICS

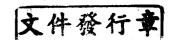
Test Condition : (Vs=1.5V,RL=680 Ω ,Ta=20 \pm 2°C,R.H.=65 \pm 5%)

Dire	Directivity : Noise Cancelling									
No	Parameter	Symbol	Condition	Limit			11-:4			
			Condition	Min	Center	Max	Unit			
1.1	Sensitivity	S	F=1KHz,S.P.L.=1Pa OdB=1V/Pa	-54	-50	-46	dB			
1.2	Output Impedance	Zout	F=1KHz			680	Ω			
1.3	Current Consumption	loss	VS=1.5V, RL=680Ω			500	μΑ			
1.4	Signal to Noise Ratio	S/N	S:(F=1KHz, S.P.L=1Pa) N:(A-Weighted Curve)	56			dB			
1.5	Decreasing Voltage	△ S−VS	VS=1.5V to 1.1V			-3	dB			

1.6 Typical Frequency Response Curve Limit **1



⊙ Operating Voltage : 1.1V to 10V





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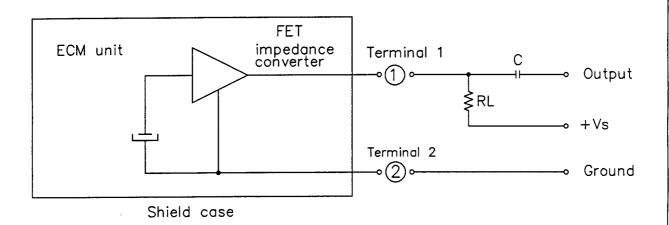
MODEL NO. OBO-20DN-0C-002

PART NAME

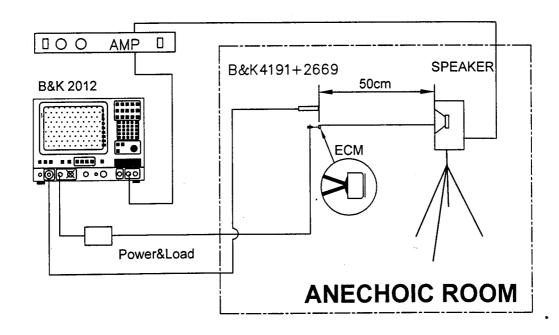
ELECTRET CONDENSER MICROPHONE

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2. MEASUREMENT CIRCUIT



3. MEASUREMENT METHOD



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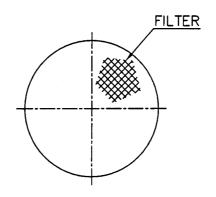
4.MECHANICAL CHARACTERISTICS

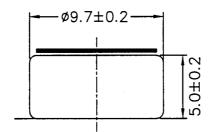
4.1 Soldering Standard : 300±5°C / Max. 2 seconds

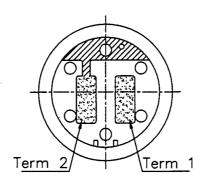
4.2 Weight: Appr.1.0g

4.3 Mechanical Layout and Dimensions :

Unit: mm









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5. TEMPERATURE CONDITIONS

5.1 Operating Temperature Range : -20° C $\sim +60^{\circ}$ C

5.2 Storage Temperature Range : -40° C $\sim +70^{\circ}$ C

6. RELIABILITY TEST **1

Vibration Test	The microphone unit must be subjected to a procedure that after vinrating for 2 hours from each of the two directions with a frequency of 10—55Hz and a 1.52mm—high amplitude.				
Drop Test	The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1-meter-high without package.				
Temperature Test	 (a)After exposure at +70°C for 200 hours, sensitivity to be within ±3dB from initial sensitivity. (b)After exposure at -25°C for 200 hours, sensitivity to be within ±3dB from initial sensitivity. (The measurement to be done after 3 hours of conditioning at 20°C) 				
Humidity Test	The microphone unit must be subjected to +40°C,93% RH—for 200 Hours , and expose to room temp for 3 Hours.				
Temperature Cycle Test	The microphone unit must be subjected to following conditions (+50°C 1H-room temp 1H; -10°C 1H-room temp 1H) at 5 cycle, and exposed to room temperature for 3 hours, sensitivity to be within ±3dB				

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/ μ bar)=-42dB(0dB=1V/Pa)

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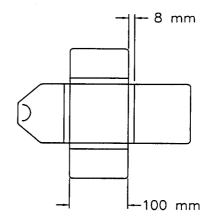
8. PACKAGING **%**1

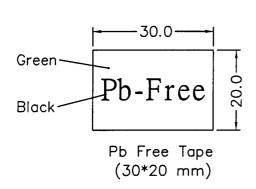


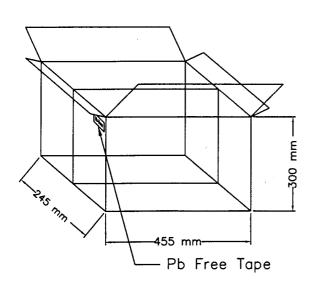
PUT INTO CARDBOX

MIC

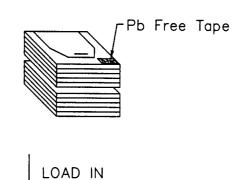
100 pcs / 1 Tray

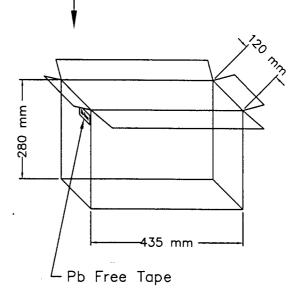






2 MIDDLE BOXES / PER CARTON (20000 pcs) (IMPORTED CARTON MATERIAL)





100 CARD BOXES / PER· MIDDLE BOX(10000 pcs) (IMPORTED CARTON MATERIAL)