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080. Pro.2.

SPECIFICATIONS

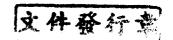
MODEL NO. OBO-B43KP-0B-012

PART NAME

SHEET
1 OF 6

				ELECTRET CONDENSER MICROPHONE		1 OF 6	5
	ALTERNATION HISTORY						
Marking	Date	ECN NO.	REV	. Description	Page	PREPARE BY	APPROV BY
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SPECIFICATIONS

MODEL NO. OBO-B43KP-0B-012

PART NAME
ELECTRET CONDENSER MICROPHONE

SHEET 2 OF 6

MODEL NO: OBO-B43KP-0B-012

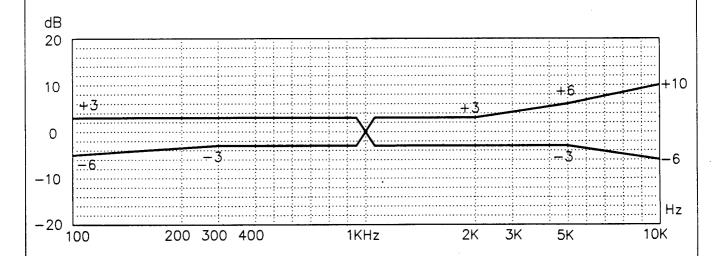
Features: Conformity RoHS Directive (2002/95/EC) Requests.

1. ELECTRICAL CHARACTERISTICS

Test Condition : (Vs=2.0V, $RL=2.2K\Omega$, $Ta=20\pm2$ °C, $R.H.=65\pm5$ %)

Dire	Directivity : Omnidirectional						
No	Parameter	Symbol	Condition	Limit			11-:4
	Parameter		Condition	Min	Center	Max	Unit
1.1	Sensitivity	S	F=1KHz,S.P.L.=1Pa OdB=1V/Pa	-45	-42	-39	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-Weighted Curve)	58			dB
1.5	Decreasing Voltage	△S-VS	VS=3.0V to 1.5V			-3	dB

1.6 Typical Frequency Response Curve Limit



⊚ Frequency : 100~10,000Hz

⊚ Operating Voltage : 1.0V to 10V

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SPECIFICATIONS

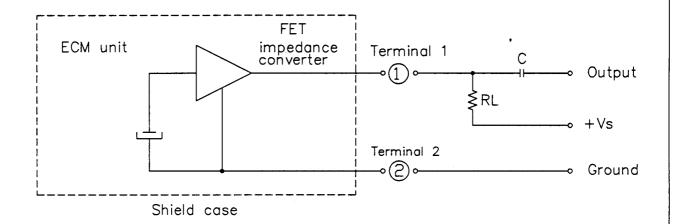
MODEL NO. OBO-B43KP-0B-012

PART NAME

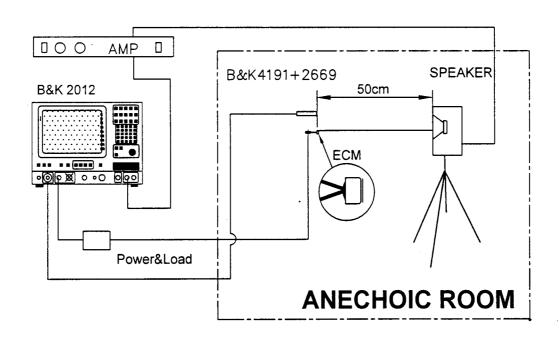
ELECTRET CONDENSER MICROPHONE

SHEET 3 OF 6

2. MEASUREMENT CIRCUIT



3. MEASUREMENT METHOD



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080. Pro.2

SPECIFICATIONS

MODEL NO. OBO-B43KP-0B-012

PART NAME

SHEET

ELECTRET CONDENSER MICROPHONE

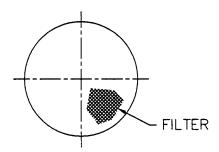
4 OF 6

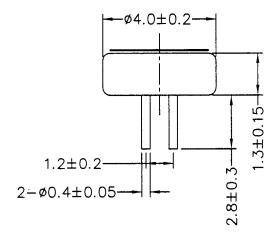
4. MECHANICAL CHARACTERISTICS

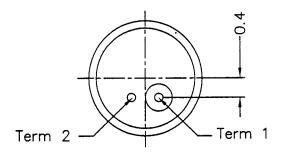
4.1 Soldering Standard : 320±10°C / Max. 2 seconds

4.2 Weight: Appr.0.1g

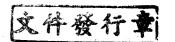
4.3 Mechanical Layout and Dimensions :







Unit: mm





SPECIFICATIONS

MODEL NO. OBO-B43KP-0B-012

PART NAME
ELECTRET CONDENSER MICROPHONE

SHEET 5 OF 6

5. TEMPERATURE CONDITIONS

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

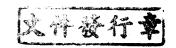
5.2 Storage Temperature Range : -20° C $\sim +60^{\circ}$ C

6. RELIABILITY TEST

Vibration Test	To be no interference in operation after vibrations, 10Hz to 55Hz for 1 minute full amplitude 1.5mm, for 2 hours at 3 axises.					
Drop Test	The microphone unit without packaged must be subjected to each 3 drops at 3 axises, 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 240 hours. 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 $+70^{\circ}\text{C}$ for 1 hr, from $+70^{\circ}\text{C}$ to $+25^{\circ}\text{C}$ for 0.5hr ,at $+25^{\circ}\text{C}$ for 1hr, from $+25^{\circ}\text{C}$ to -20°C for 0.5hr ,at -20°C for 1hr , from -20°C to $+25^{\circ}\text{C}$ for 0.5hr , at $+25^{\circ}\text{C}$ for 1hr , after 10 cycles , the sensitivity to be within $\pm 3\text{dB}$ 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 " 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: $-62dB(0dB=1V/\mu bar)=-42dB(0dB=1V/Pa)$





SPECIFICATIONS

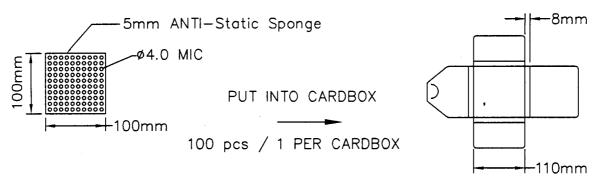
MODEL NO. OBO-B43KP-0B-012

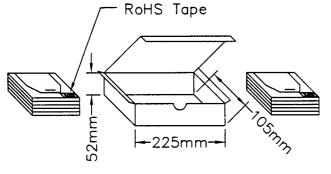
PART NAME

ELECTRET CONDENSER MICROPHONE

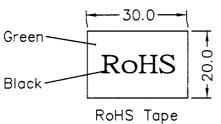
SHEET 6 OF 6

8. PACKAGING

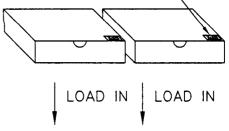


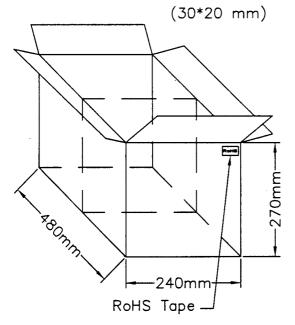


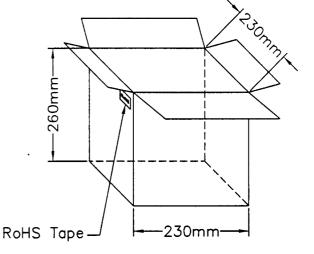
10 CARDBOXES / PER SMALL BOX(1000 pcs)



RoHS Tape







LOAD

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

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