

Customer Name**COMPAL**

Part Name:

Drawing Number:

Part Number:

Reception Number:

Model Number:

Reception Date:

Remarks:**For Customer:**

Signature of approval

Hosiden

Model Name:

Electret Condenser Microphone

Product Number:

KUF4323-013220

Specification Number:

KUF4323-013220SB

Drawing Number:

KUF4323-013220DB

Section in charge:

Hosiden Kyushu Co. Ltd.

Submitting Day:

Jul.28.06

Desired Returning Date:

Aug.11.06

Caution

1. Please return this sheet by the desired day after signed in the customer's column.
2. This specification is assures to the use of the unit. Please investigate the influence on the circumference etc. when building in your product using.
3. Please use the product in the condition in specification exchanged. When you use the product in the condition out of the specification or you need some requirement that is not described in the specification please consult us.

	Date	Signature
Written by	Jul.28.06	M. Kaneko
Checked by	Jul.28.06	<i>[Signature]</i>
Checked by	Jul.28.06	X. Nobanishi
Authorized by	Jul.28.06	K. Ono

Reference Number

SPECIFICATIONS

TITLE KUF4323-013220SB

NUMBER

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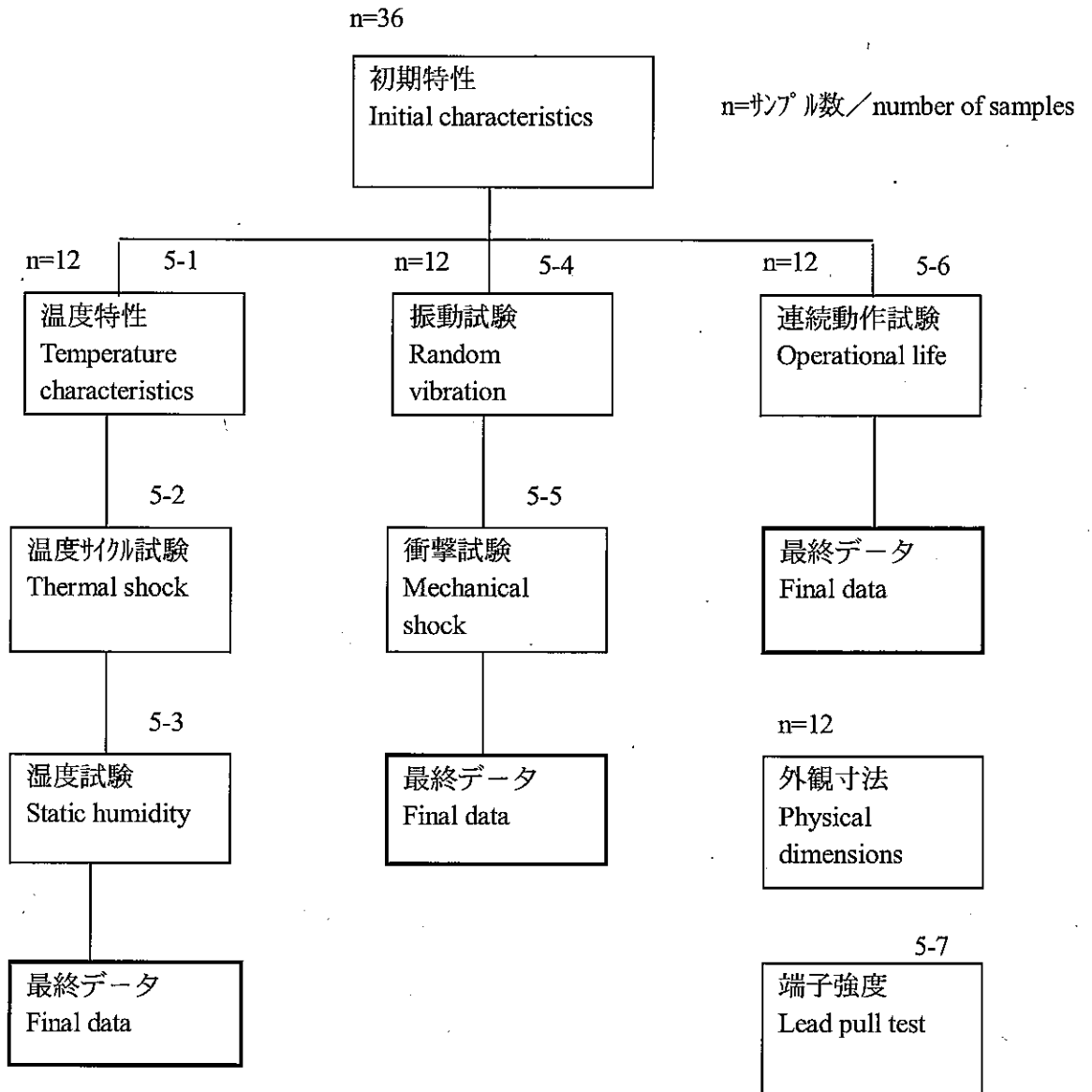
1.	適用範囲 Scope	本仕様書はエレクトレットコンデンサマイクに適用する This specification applies electret condenser microphone.			
2.	品番 Model No.	KUF4323-013220			
3.	試験条件 Test Condition				
	3-1. 標準試験条件 Standard Test Condition	温度 / Temperature	:	5 ~ 35 °C	
		相対湿度 / Rel.humidity	:	45 ~ 85 % (RH)	
		気圧 / Pressure	:	86 ~ 106 kPa	
	3-2. 判定条件 Judgment Test Condition	温度 / Temperature	:	20 ± 2 °C	
		相対湿度 / Rel.humidity	:	60 ~ 70 % (RH)	
		気圧 / Pressure	:	86 ~ 106 kPa	
4.	仕様 Specifications	(JIS C5502 に準拠する / Conform to JIS C5502)			
	4-1. 感度 Sensitivity	-41 ± 3 dB (0 dB = 1 V / 1 Pa at 1 kHz)			
	4-2. 周波数特性 Frequency Response				
	4-3. インピーダンス Impedance	4.7 kΩ (Maximum)			
	4-4. 基準電圧 Standard Power Supply	D.C 2.2 V			
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	JUL.28.06	M,Kaneko	<i>FC</i>	<i>K. Nishimura</i>	

4-5. 動作電圧 Operating Voltage	D.C 1 ~ 10 V
	(感度変動は 1.5 V の場合、電圧 2 V と比較して 3 dB 以内とする。) (When 1.5 V, sensitivity allowance to be 3 dB based on the sensitivity at 2 V)
4-6. 消費電流 Current Consumption	0.5 mA (Maximum)
4-7. S/N	55 dB (Minimum) (A-Curve at 1 kHz 1 Pa)
4-8. 接地 Earth	⊖
4-9. 位相 Phase	統一 Unity
4-10. 最大入力音圧 Maximum input Sound Pressure Level	104 dB S.P.L (at 1 kHz)
	歪率 3 % 以下 Distortion 3 % (Maximum)
4-11. 指向性 Directivity	全指向性 OMNI-Directional
4-12. 回路図 Test Circuit	
	$R_L = 4.7 \text{ k}\Omega$ $C = 1 \mu\text{F}$

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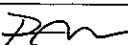
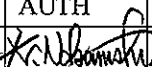
5.	信頼性試験 Qualification Tests				
	5-1. 温度特性 Temperature characteristics	+25 °C (初期データ測定条件 / All data initially taken at +25 °C)			
	5-2. 温度サイクル試験 Thermal shock	-40 °C(30 min) → +85 °C(30 min) … 32 cycles 移行時間 / Transition time : Max. 20 s			
	5-3. 湿度試験 Static humidity	90 to 95 % RH, +70 °C for 240 h			
	5-4. 振動試験 Random vibration	周波数 / Frequency : ① 20 Hz ~ 80 Hz… +3 dB/octave ② 80 Hz ~ 350 Hz… 0.04 G ² /Hz ③ 350 Hz ~ 2000 Hz… -3 dB/octave 試験時間数 / Test times : 15 min / plane (3 plane)			
	5-5. 衝撃試験 Mechanical shocks	パルス波形 / Pulse shape : half sine wave 加速度 / Acceleration : 3,000 g's for 0.3 milliseconds 回数 / Number of jolts : 3 in each of 6 axes			
	5-6. 動作寿命試験 Operational life	+70 °C for 1,000 h (at full rated power)			
	5-7. 端子強度試験 Lead pull	500 g's minimum			
6.	注記 Note				
	6-1. 動作温度範囲 Operation Temperature	-20 °C ~ +70 °C			
	6-2. 保存温度範囲 Storage Temperature	-40 °C ~ +85 °C			
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7. Qualification flowchart
信頼性試験フローチャート

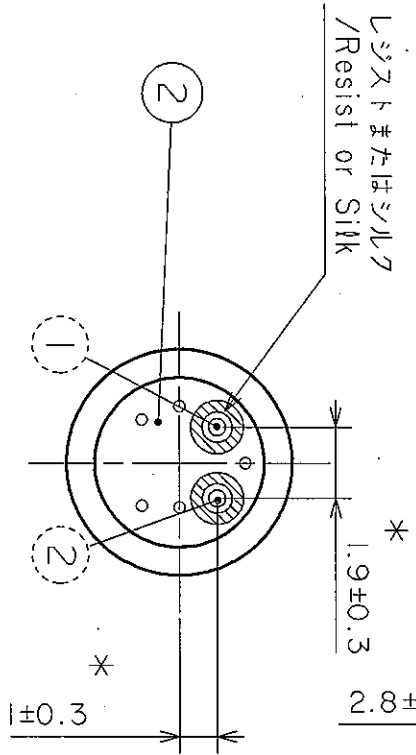
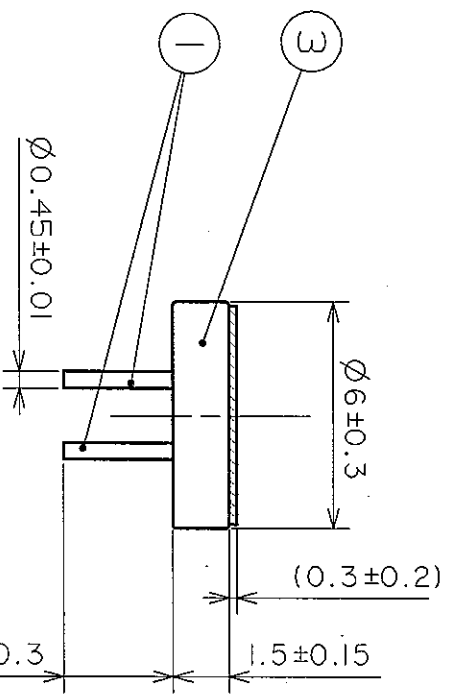
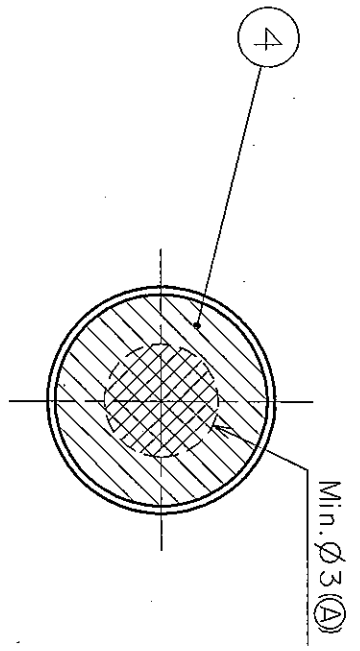


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1.	<p>PC タイプ半田付け条件 Soldering condition for PC type</p>
	<p>1-1. コテ先温度は、290 °C 以下にしてください。 The temperature of soldering iron shall be less than 290 °C.</p>
	<p>1-2. ECM は放熱効果の高い金属性の固定台（放熱板）に固定して、半田付けを行ってください。 ECM 個々に放熱板が当たるよう配慮願います。 ECM shall be soldered fixed on the metal block (heat sink), which has the higher radiation effects. Said heat sink shall contact with each of ECM.</p>
	<p>1-3. 半田付けの時間は各端子 1 ~ 2 秒で行ってください。 The soldering time for each terminal shall be 1 ~ 2 s.</p>
	<p>1-4. 半田付け後のピンホールがないようにしてください。 The pin hole after soldering shall be avoided.</p>
	<p>1-5. ECM は静電気で壊れる可能性がありますので静電気除去のための対策（半田ゴテ、作業台、人体のアース）を行ってください。 ECM may easily destroyed by the static electricity, and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed.</p>
	<p>1-6. 本製品はリフロー及びディップ半田対応品ではありません。 This product cannot withstand re-flow and soldering processes.</p>

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	Jul.28.06	M.Kaneko			

REVISION		
ZONE	LTR	DESCRIPTION
DATE	REVISED	APPROVED



* 部寸法は、端子の付根寸法であり先端部は問わない。
 DIMENSION MARKED * INDICATES THE DISTANCE MEASURED AT THE BOTTOM OF TERMINALS (LEGS) (AND NOT AT THE POINTS)
 前面(A)部は薄肉の為、取扱い時に負荷を掛けない様に注意して下さい
 PLEASE HANDLE WITH CAUTION. ECM SURFACE(A) IS THIN.

(1)	出力端子 / Output
(2)	7-入端子 / Earth

4	ボックス/Cloth	1		黒/Black
3	ケース/Case	1	A1	
2	プリント基板/Print Board	1	カライボ/Epoxy	
1	端子/Terminal	1		
LTR	PART NAME	QTY	MATERIAL	色調/Color
DWN	M. Kaneko	DATE	JUL. 28. '06	SCALE
CHKD		DATE	JUL. 28. '06	3RD ANGLE PROJECTION
APVD		DATE	JUL. 28. '06	
NAME		Electret Condenser Microphone		
MODEL NO.		KUF4323-013220		
DWG NO.		KUF4323-013220DB		

I.KUF.4323.013220.B

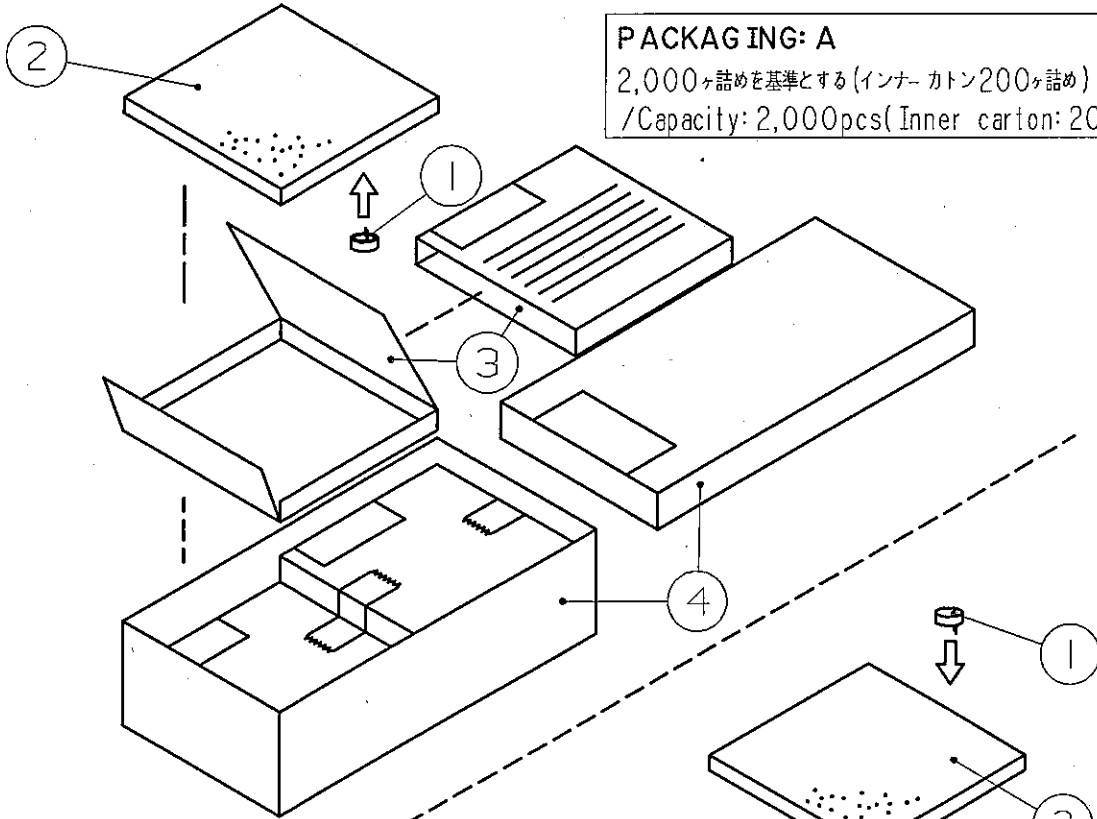
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS INCHES TOLERANCE ON DECIMALS± FRACTIONALS± ANGLES± DO NOT SCALE DRAWING

Hosiden Corporation
 FACTORY: OSAKA TOKYO F.D. KYUSHU SEIKO

REVISION

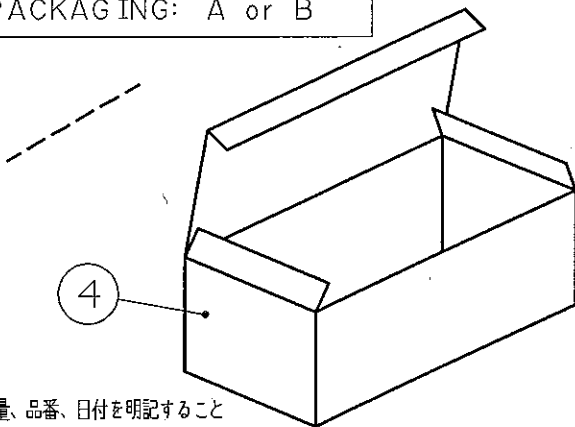
ZONE	LTR	DESCRIPTION	DATE	REVISED	APPROVED
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PACKAGING: A
 2,000ヶ詰めを基準とする(インナーカートン200ヶ詰め)
 /Capacity: 2,000pcs(Inner carton: 200pcs)



梱包方法: A 又は B
 PACKAGING: A or B

PACKAGING: B
 1,000ヶ詰めを基準とする(インナーカートン100ヶ詰め)
 /Capacity: 1,000pcs(Inner carton: 100pcs)



1. 箱に数量、品番、日付を明記すること
 /Write quantity, No, data, to carton.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS INCHES TOLERANCE ON DECIMALS± FRACTIONALS± ANGLES±

4	中装箱/CARTON	1		
3	インナーカートン/INNER CARTON	10		
2	ウレタン/POLYETHYLENE FORM	10		
1	E.C.M	1000 or 2000		KUF4323-013220
LTR	PART NAME	QTY	MATERIAL	

DWN	M. Kaneko	DATE	JUL. 28. '06	SCALE	NAME
CHKD	<i>[Signature]</i>	DATE	JUL. 28. '06	N.T.S	梱包規格図/PACKAGING
APVD	<i>[Signature]</i>	DATE	JUL. 28. '06	3RD ANGLE PROJECTION	MODEL NO.
Hosiden Corporation					KUF4323-013220
FACTORY: <input type="checkbox"/> OSAKA <input type="checkbox"/> TOKYO <input type="checkbox"/> F.D. <input type="checkbox"/> <input type="checkbox"/> KYUSHU <input type="checkbox"/> SEIKO <input type="checkbox"/>					DWG NO.
					KUF4323-013220HB

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