SPECIFICATIONS SHEET FOR APPROVAL

CONDENSER MICROPHONE
P/N: OM6013CF423P

DESCRIPTION: D6mm, H1.3mm Condenser Microphone, Omni-Directional, -42 ± 3dB, Pin-type, RoHS Compliance (Directive 2002/95/EC)

VERSION: 04

DATE: 7-Sep-2010

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	25-Mar-10
02	Remove Impedance, Add terminal material, Soldering condition and packing information	2-Sep-10
03	Updated dimenison drawing	6-Sep-10
04	Updated packing information	7-Sep-10

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SPECIFICATIONS SHEET

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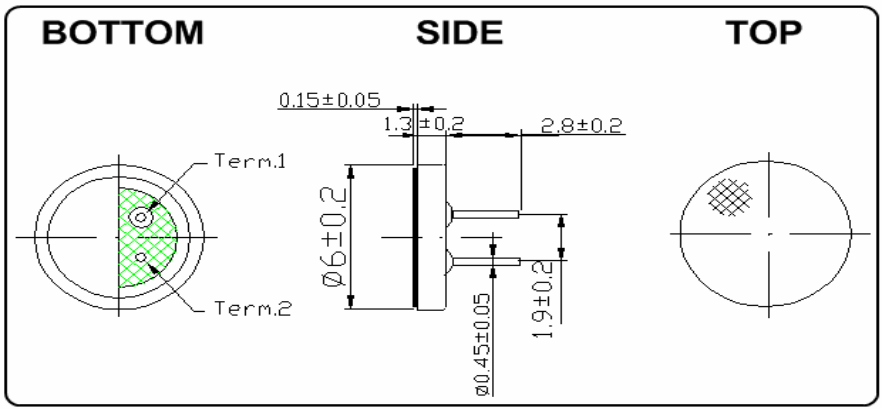
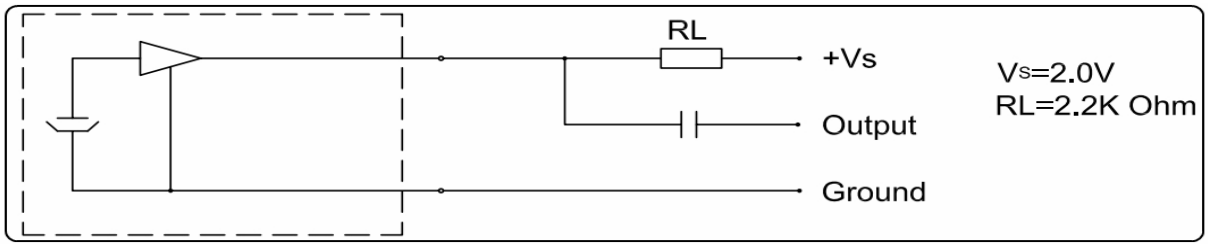
1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
DIRECTIVITY	Omni-Directional	-
SENSITIVITY (0 dB = 1 V/pa AT 1 KHz)	-42 ± 3	dB
FREQUENCY RANGE	50 - 16,000	Hz
MAX OPERATING VOLTAGE	10	V
STANDARD OPERATION VOLTAGE (Vs)	2	V
RESISTANCE LOADING (RL)	2.2K	Ohm
MAX CURRENT CONSUMPTION	0.5	mA
S/N RATIO	>60	dB
TERMINAL MATERIAL	GOLD PLATED BRASS	-
OPERATING TEMPERATURE	-20 to +60	℃
STORAGE TEMPERATURE	-40 to +70	℃

2. DIMENSIONS (unit in mm)



3. DRIVING CIRCUIT



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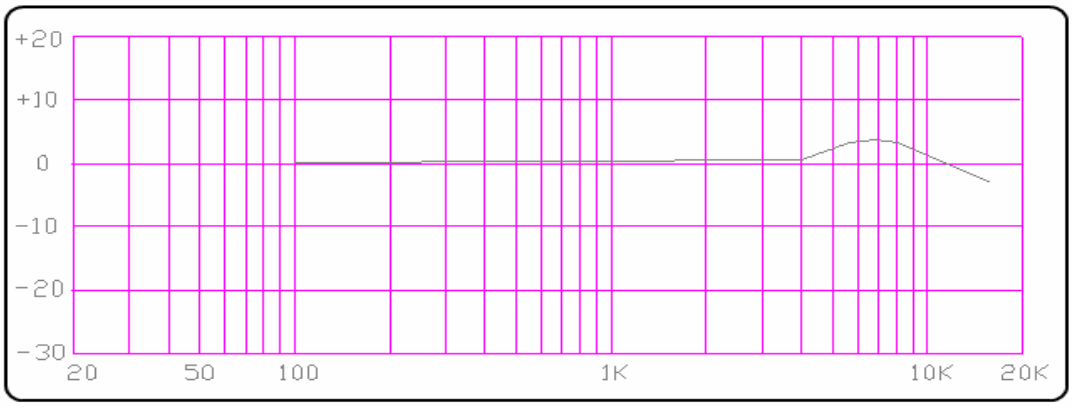
4. TYPICAL FREQUENCY RESPONSE



5. RELIABILITY TEST

(After any tests, the sensitivity to be within ±3dB of initial sensitivity)

1) Temperature Test

a) After exposure at +70℃ for 200 hours, sensitivity must not varied more than ± 3dB from Initial sensitivity.
b) After exposure at -20℃ for 200 hours, sensitivity must not varied more than ± 3dB from Initial sensitivity.
(The measurement to be done after 2 hours of conditioning at 20℃,R.H 50% for recovering)

2) Temperature Cycle Test

After exposure at "70℃ for 60 minutes,at 20℃ for 60 minutes,at -25℃ for 60 minutes,at 20℃ for 60 minutes "for 5 cycles, sensitivity must not be varied more than ±3dB from initial sensitivity.

3) Humidity Test

After exposure at +60 ± 2℃, 90%RH for 200 hours, sensitivity must not be varied more than ±3dB from initial sensitivity.
(The measurement to be done after 2 hours of conditioning at 20℃,R.H 50% for recovering)

4) Vibration Test

The Microphone unit must be subjected to each 2 hours vibrations at three axises 2mm dynamic range ,10~50hz/minute.

5) Drop Test

The Microphone unit without package must be subjected to each 3 drops at three axises from the height Of 1 meter to 20 mm thick hardwood board.

6. SOLDERING CONDITION

Soldering Temp. : 330 ± 5℃ within 2 sec
(This model is not suitable for wave soldering)

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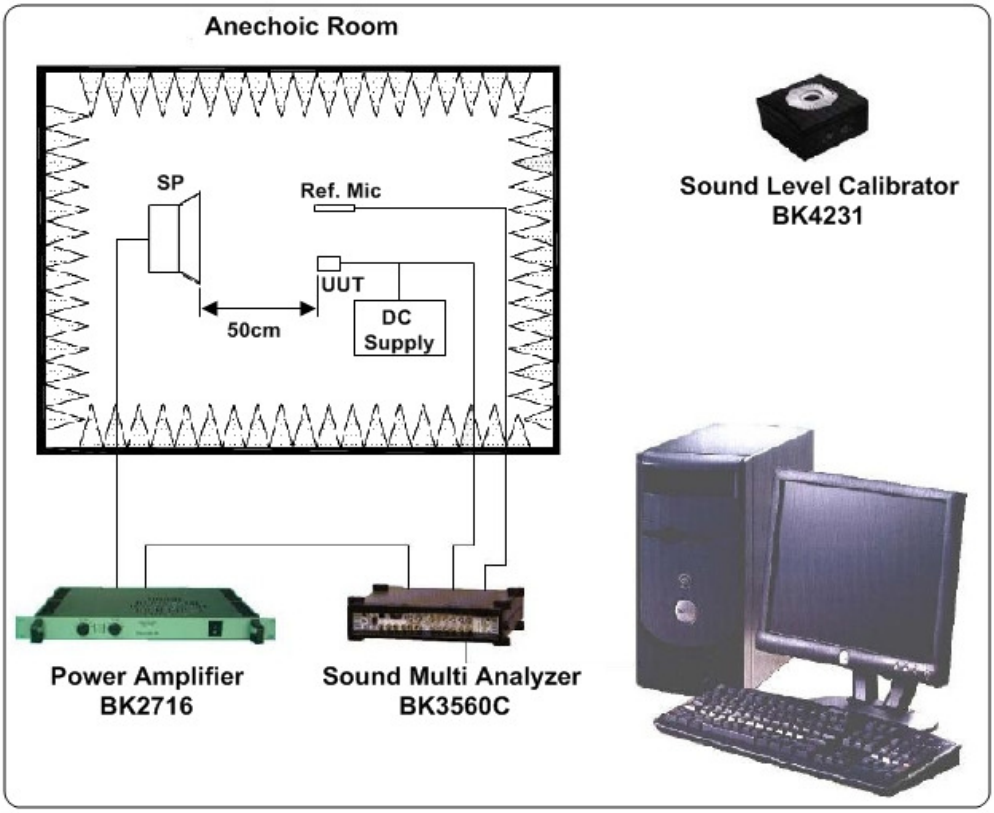
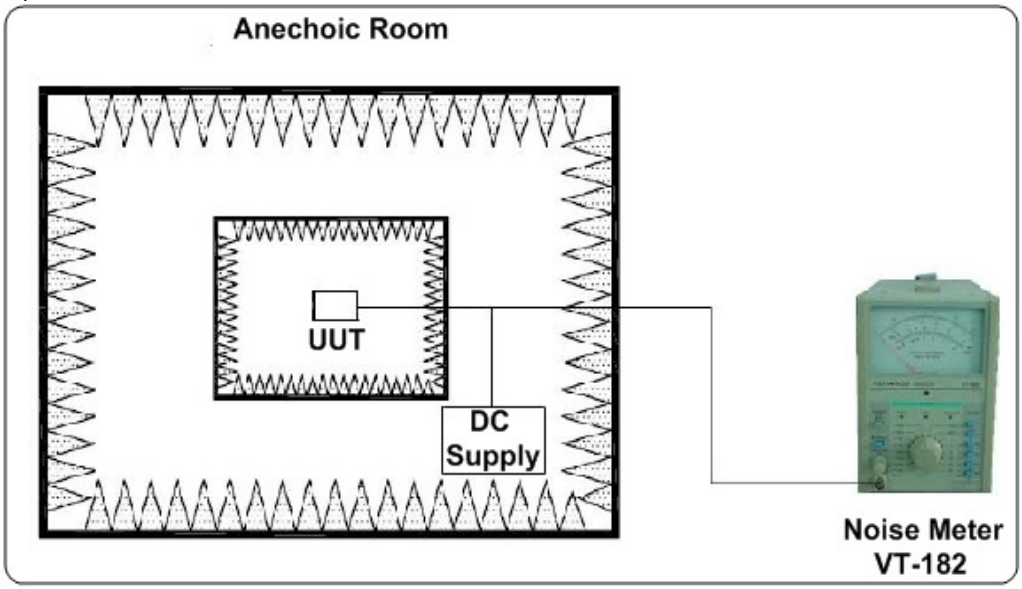
7. MEASUREMENT SYSTEM:

1)Standard Frequency Response Test



2)S/N Ratio Test



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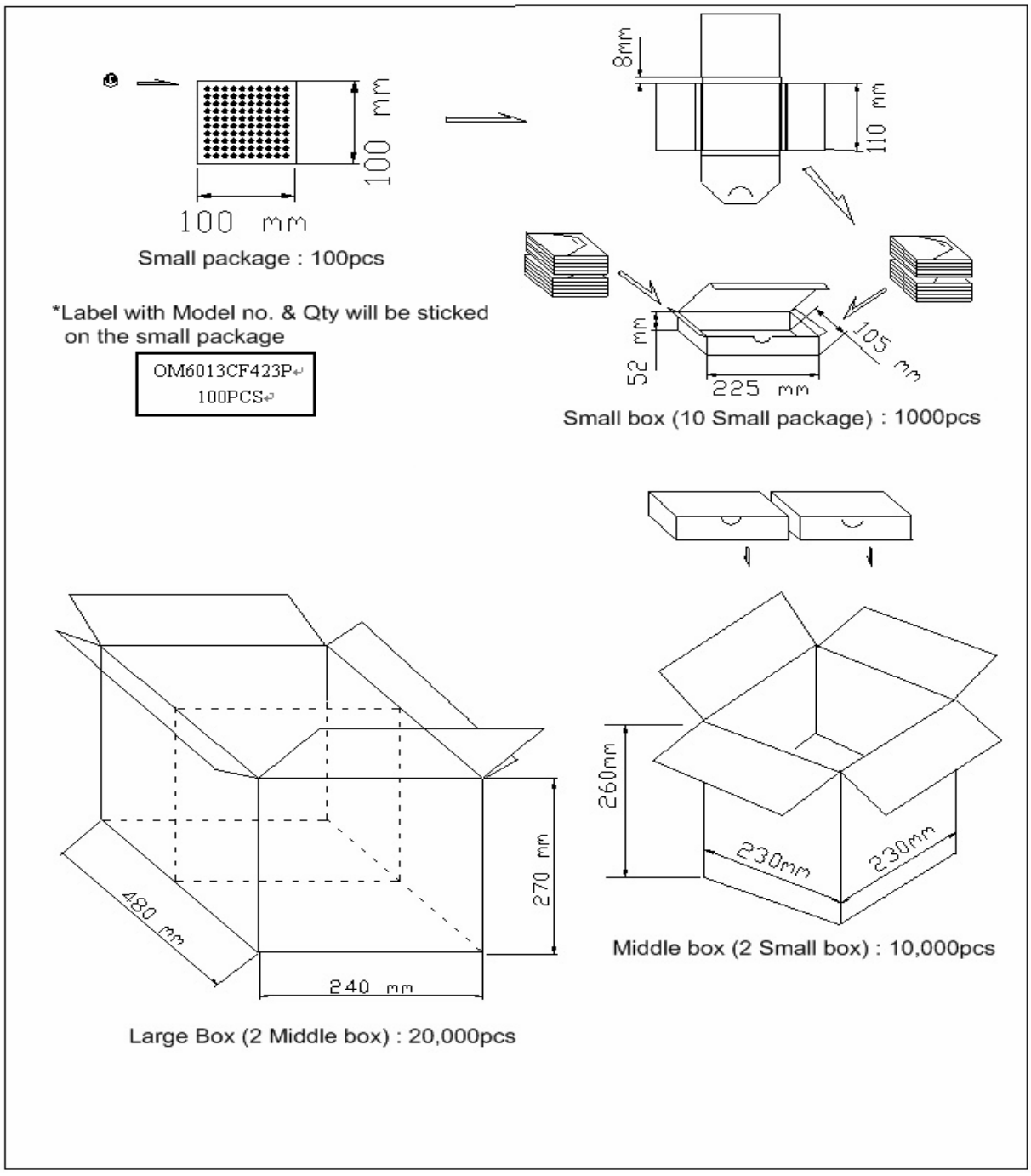
8. PACKING INFORMATION:



G.W : 3.3Kg
N.W: 2.8Kg

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