SPECIFICATIONS SHEET FOR APPROVAL

CONDENSER MICROPHONE
P/N: OM6027GF423P-02

DESCRIPTION: D6mm, H2.7mm Condenser Microphone, Omni-Directional, -42 ± 2dB, 2.8mm pin, with Rubber holder
RoHS Compliance (Directive 2002/95/EC)

VERSION: 01

DATE: 22-Jan-2018

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	22-Jan-18

APPROVED BY :

CUSTOMER NAME :
DATE :

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SPECIFICATIONS SHEET

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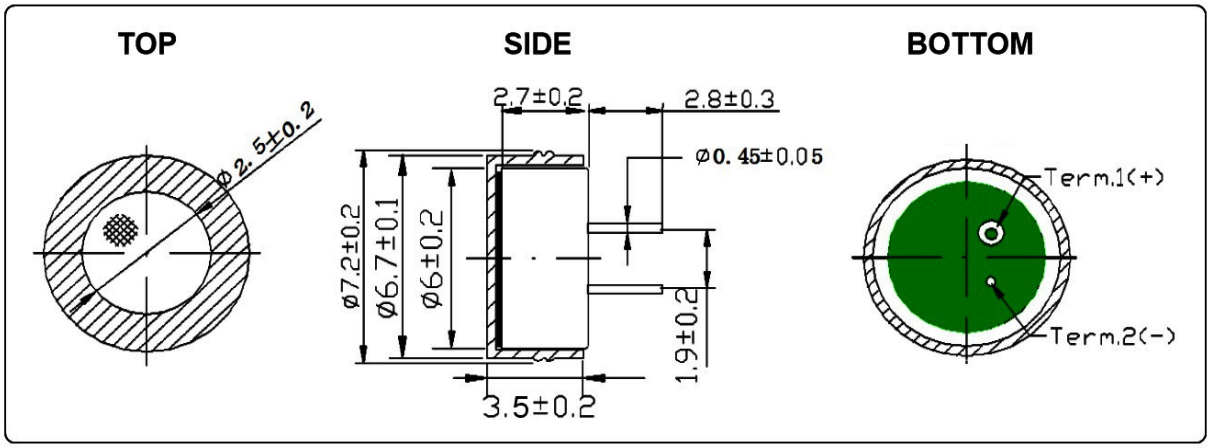
P/N: OM6027GF423P-02

1. SPECIFICATIONS

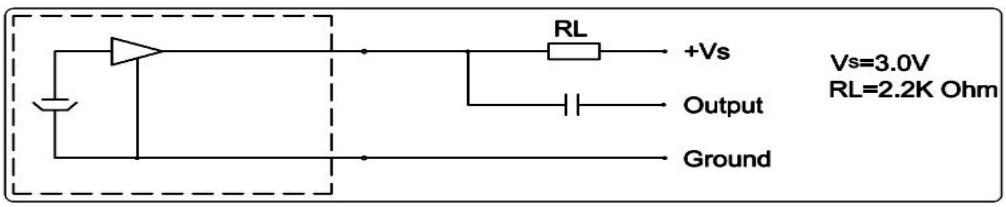
PARAMETERS	VALUES	UNITS
DIRECTIVITY	Omni-Directional	-
SENSITIVITY (0 dB = 1 V/pa AT 1 KHz)	-42 ± 3	dB
IMPEDANCE	Low Impedance	-
FREQUENCY RANGE	50 - 16,000	Hz
MAX OPERATING VOLTAGE	10	V
STANDARD OPERATION VOLTAGE (Vs)	3	V
RESISTANCE LOADING (RL)	2.2k	Ohm
MAX CURRENT CONSUMPTION	0.5	mA
S/N RATIO	>60	dB
OPERATING TEMPERATURE	-20 to +60	℃
STORAGE TEMPERATURE	-25 to +70	℃

2. DIMENSIONS (unit in mm)



Tolerance: ±0.5mm except specified

3. DRIVING CIRCUIT



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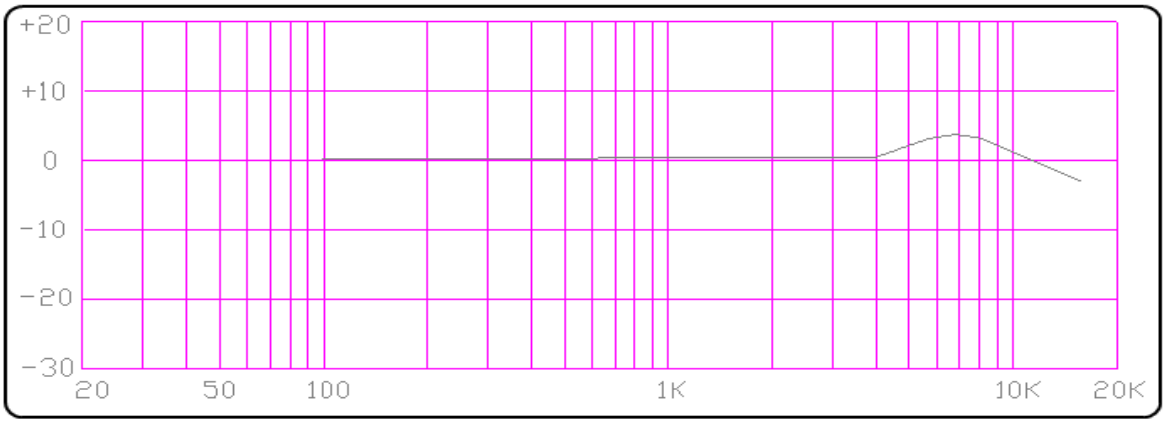
4. TYPICAL FREQUENCY RESPONSE



5. RELIABILITY TEST

After any tests, the sensitivity to be within ±3dB of initial sensitivity after 6 hours of conditioning at +25℃)

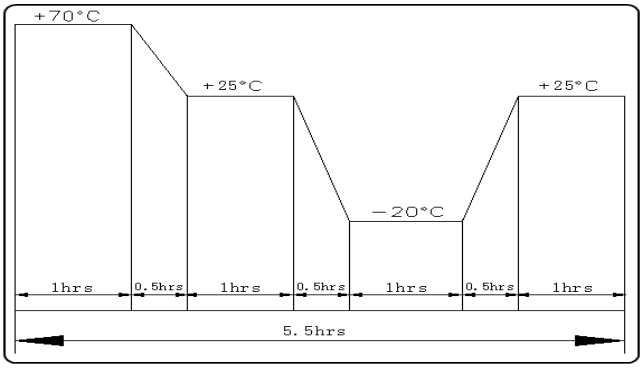
1) Temperature Test

a) After being placed in a chamber at +70℃ for 72 hours.

b) After being placed in a chamber at -25℃ for 72 hours.

2) Temperature Cycle Test

The part shall be subjected to 10 cycles.One cycle shall be consist of:



3) Humidity Test

After being placed in a chamber at +60℃and 90±5% relative humidity for 240 hours.

4) Vibration Test

The part shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.

5) Drop Test

The microphone unit without packaged must be subjected to each 3 drops at three axises from the height of 1 meter to 20mm thick wooden board.

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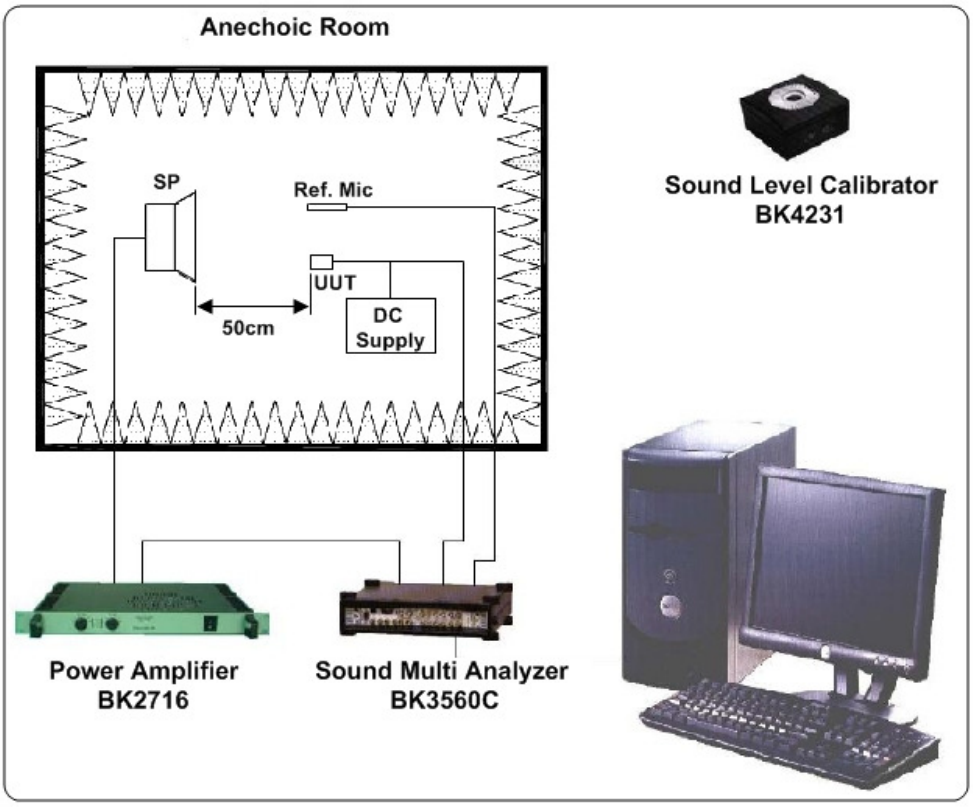
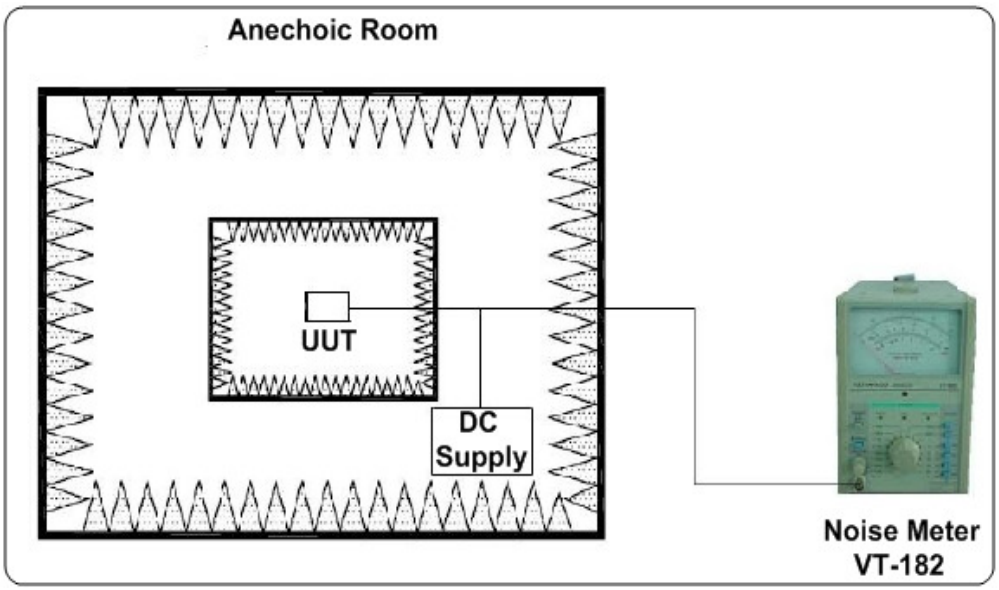
6. MEASUREMENT SYSTEM:

1)Standard Frequency Response Test



2)S/N Ratio Test



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