SPECIFICATIONS SHEET FOR APPROVAL

CONDENSER MICROPHONE (BACK ELECTRET)
P/N: NM4015GF543BS-01

DESCRIPTION: D4mm, H1.5mm, Noise Cancelling, -53dB, back electret

VERSION: 01

DATE: 3-Mar-11

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	3-Mar-11

APPROVED BY :

CUSTOMER NAME :
DATE :

SOUND COMPONENTS LIMITED 聲港科技有限公司
Unit 2307 • 23/F • Billion Trade Centre • 31 Hung To Road • Kwun Tong • Hong Kong
香港九龍觀塘鴻圖道31號鴻貿中心23樓07室
Tel: +852 2304 4000 Fax: +852 2304 7000
email: sales@hk-sound.com website: www.hk-sound.com

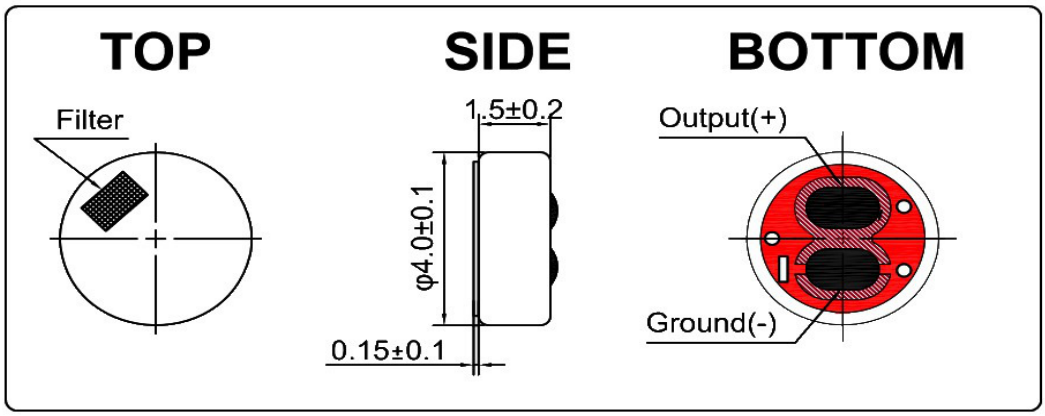
SPECIFICATIONS SHEET

CONDENSER MICROPHONE (BACK ELECTRET)
P/N: NM4015GF543BS-01

1. SPECIFICATIONS

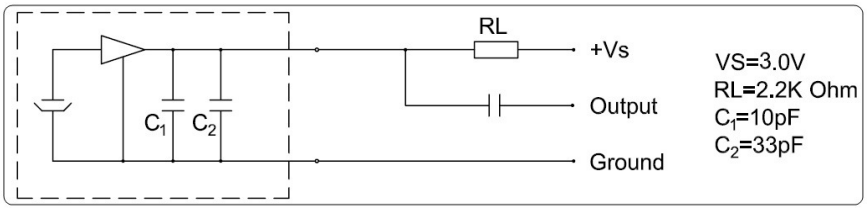
PARAMETERS	VALUES	UNITS
DIRECTIVITY	Noise Cancelling	-
SENSITIVITY (0 dB = 1 V/pa AT 1 KHz)	-54 ± 3	dB
IMPEDANCE	Low Impedance	-
FREQUENCY RANGE	100 - 10,000	Hz
MAX OPERATING VOLTAGE	10	V
STANDARD OPERATION VOLTAGE (Vs)	3	V
RESISTANCE LOADING (RL)	2.2k	Ohm
MAX CURRENT CONSUMPTION	0.5	mA
S/N RATIO	42	dB
OPERATING TEMPERATURE	-20 to +60	℃
STORAGE TEMPERATURE	-40 to +70	℃

2. DIMENSIONS (unit in mm)



Tolerance: ±0.5mm except specified

3. DRIVING CIRCUIT



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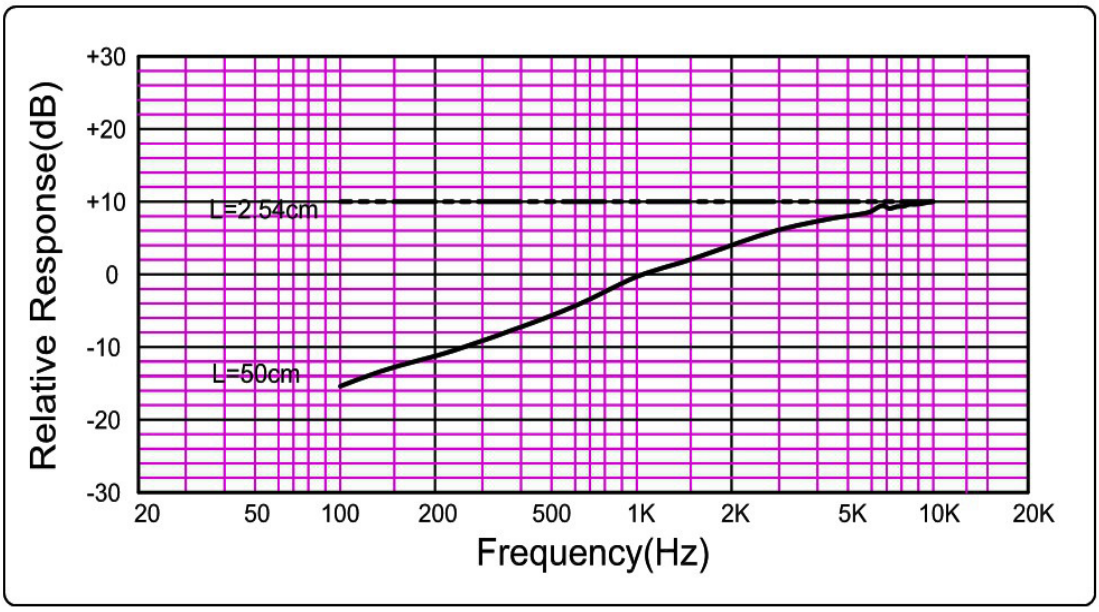
4. TYPICAL FREQUENCY RESPONSE



5. RELIABILITY TEST

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 30 minutes,at 20℃ for 10 minutes,at -20℃ for 30 minutes,at 20℃ for 10 minutes "for 5 cycles, sensitivity must not be varied more than ±3dB from initial sensitivity.

3) Humidity Test

After exposure at +40 ± 2℃, 90-95%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.

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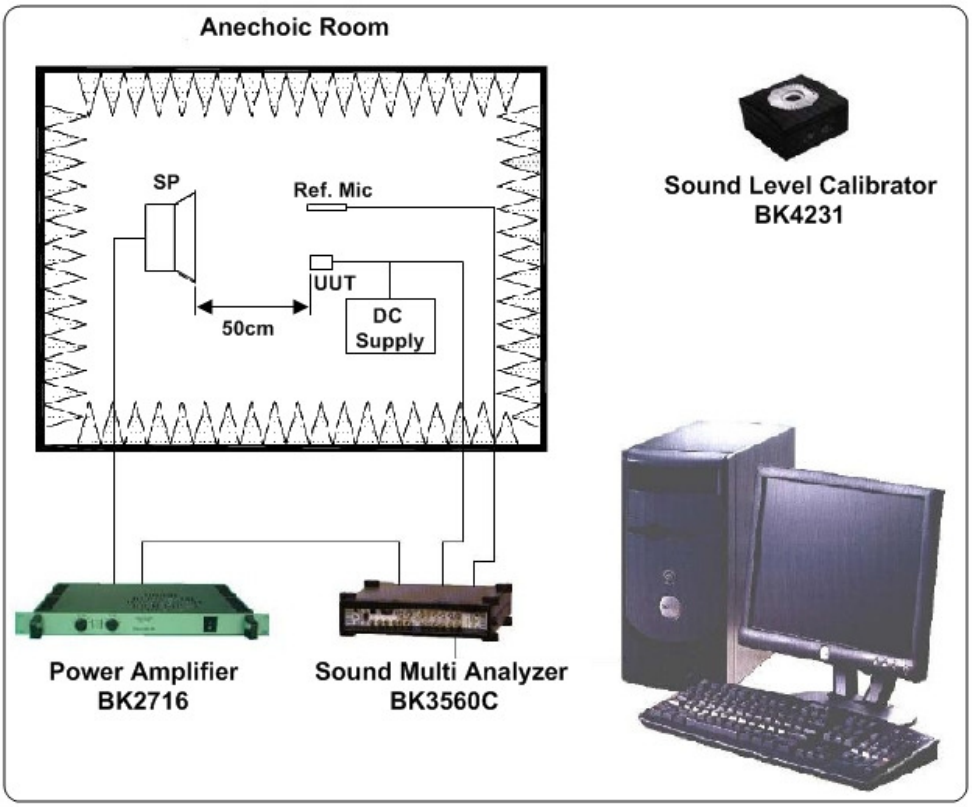
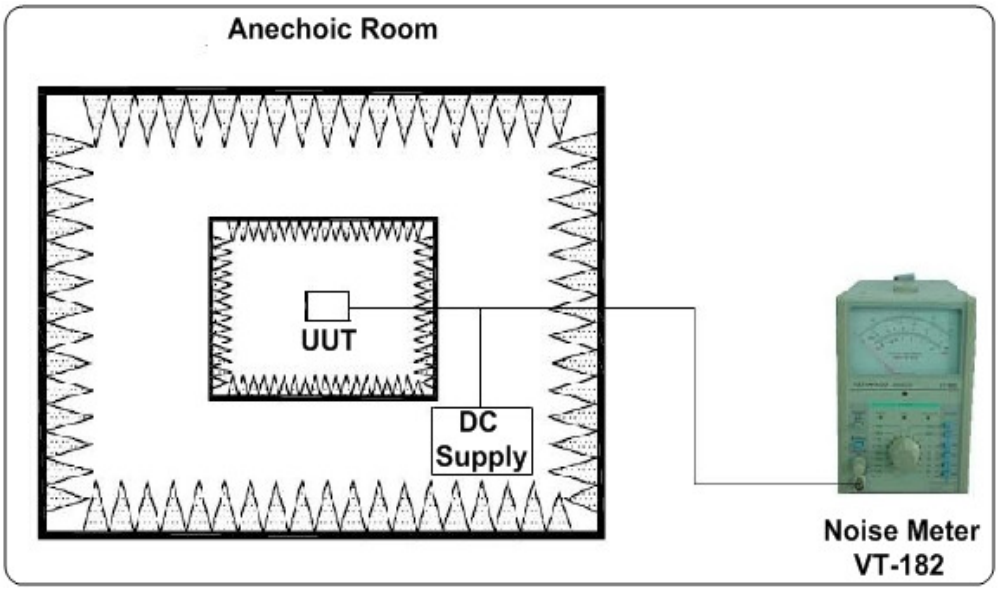
6. MEASUREMENT SYSTEM:

1)Standard Frequency Response Test



2)S/N Ratio Test



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