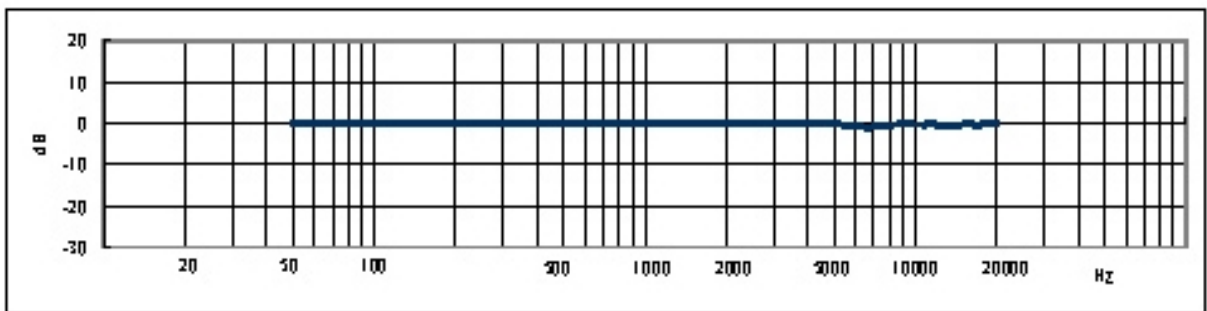


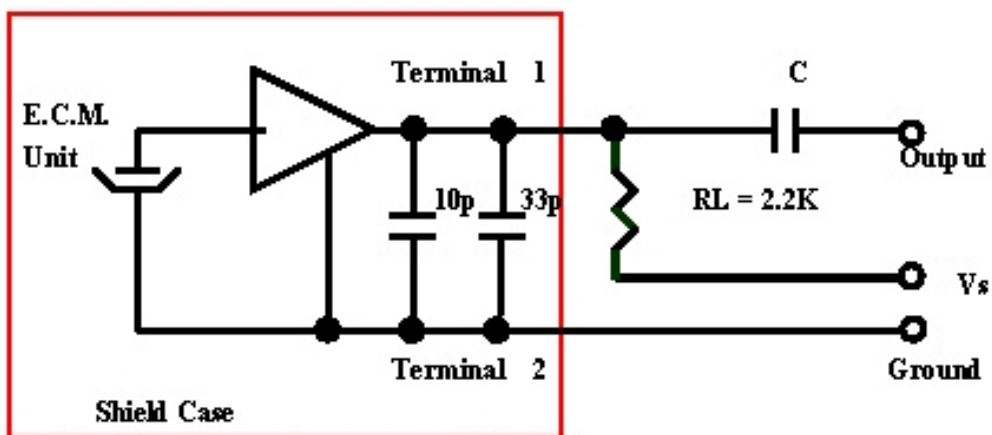
1、Scope: The specification describes the requirements of a omni-directional condenser microphone for use in telephone, general use.

2、Electrical requirements: $V_{ss}=2.0V, R_L=2.2K\Omega$

- 2-1、Sensitivity : $-60\pm 3dB, 0dB=1V/\mu\text{bar}$ ($-40\pm 3dB$ at $0dB=1V/Pa$)
- 2-2、Output impedance : Less than $2.2K\Omega$
- 2-3、Directivity : Omni-directional
- 2-4、Power consumption : Less than $500\mu A$
- 2-5、S/N ratio : More than $55dB$
- 2-6、Max. input sound level : $115dB SPL$
- 2-7、Voltage reduction characteristic : Less than $3dB$ from $2V$ to $1.1V$
- 2-8、Frequency response:



2-9、Measurement schematic



2-10、Operating voltage range : 2.0V~10V

3、Mechanical requirements :

3-1、Dimension : $\varnothing 6.0 \times 2.2$ mm

3-2、Weight : Less than 0.15 g

3-3、Soldering heat shock : After soldering heat shock at $260 \pm 5^\circ\text{C}$ for 3 ± 1 seconds.
The microphone should be without damage.

3-4、Terminal strength : After applied a 1 Kg force on terminal for 1 minute. The
microphone should be without damage.

3-5、Operating temperature range : $-20^\circ\text{C} \sim 70^\circ\text{C}$

3-6、Storage temperature range : $-25^\circ\text{C} \sim 75^\circ\text{C}$

4、Reliability test :

4-1、Vibration test : After vibrations with 10Hz~55Hz , full amplitude 2mm each 3
minutes for 30 minutes at three axes. The sensitivity should be
within ± 3 dB form initial value.

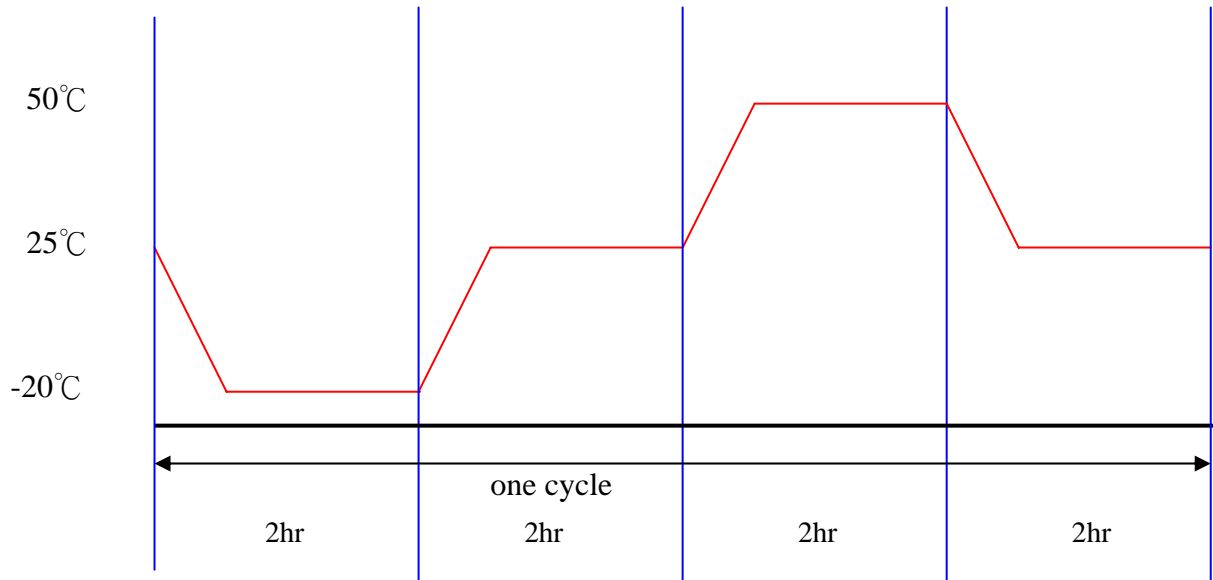
4-2、Drop test : After drop form 1 meter height to concrete floor , each 5 face for 5
times with packing. The sensitivity should be with ± 3 dB from initial
value.

4-3、Humidity test : After exposure at $40 \pm 2^\circ\text{C}$ and 90%~95% humidity for 48 hours.
The sensitivity should be with ± 3 dB form initial value.
(The measurement should be done after 3 hours at conditioning
 $25 \pm 2^\circ\text{C}$.)

4-4、High temperature test : After exposure at $70 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity
should be with ± 3 dB from initial value.
(The measurement should be done after 3 hours at conditioning
 $25 \pm 2^\circ\text{C}$.)

4-5、Low temperature test : After exposure at $-20 \pm 2^\circ\text{C}$ for 48 hours. The sensitivity
should be with ± 3 dB from initial value.
(The measurement should be done after 3 hours , at conditioning
 $25 \pm 2^\circ\text{C}$.)

4-6、Temperature cycle test : After exposure at $-20 \pm 2^\circ\text{C}$ for 2 hours , at $25 \pm 2^\circ\text{C}$ for 2
hours , at $50 \pm 2^\circ\text{C}$ for 2 hours , 5 cycles.
The sensitivity should be with ± 3 dB from initial value.
(The measurement should be done after 3 hours at conditioning
 $25 \pm 2^\circ\text{C}$.)



5 - Dimension:

