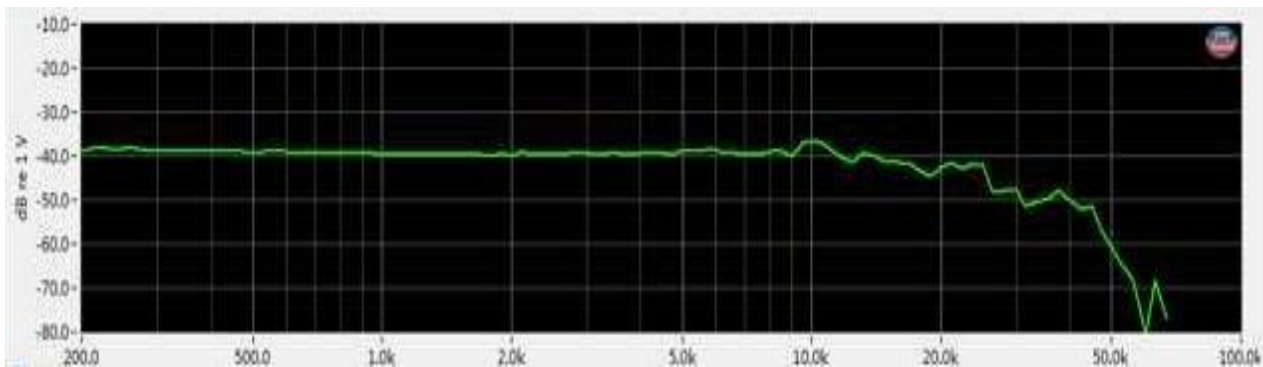


## High frequency mic

(Ultrasonic sensor microphone)



### Product features:

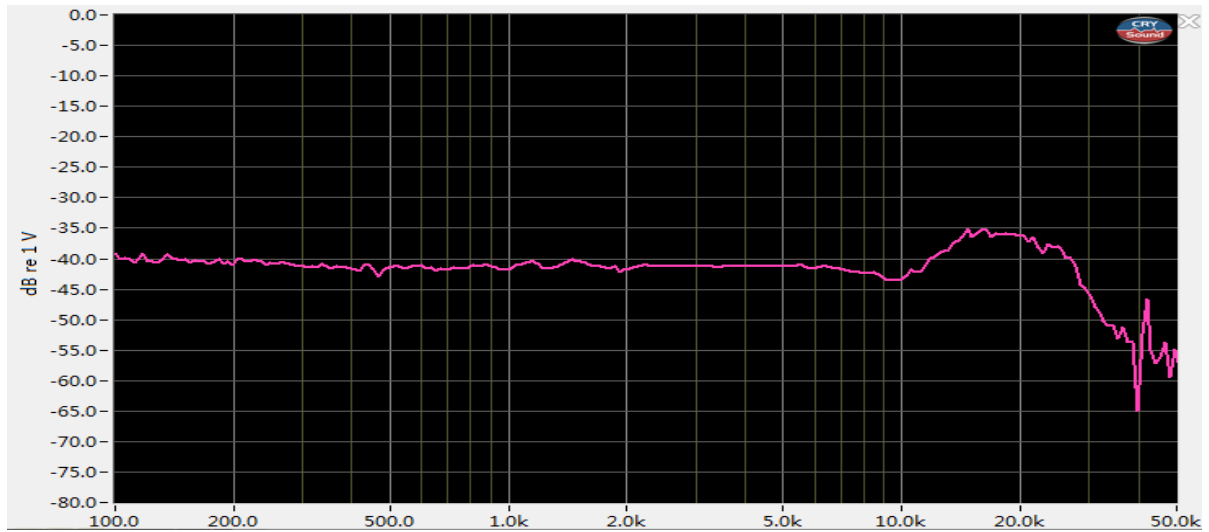
1. The microphone has high frequency response, and the response can reach about - 50dB under 40KHz sound source.
2. It can mainly replace the application of conventional ultrasonic sensing.
3. At present, it is mainly used in ultrasonic audio acquisition.

# Model No.: B6022CP1033-G45K

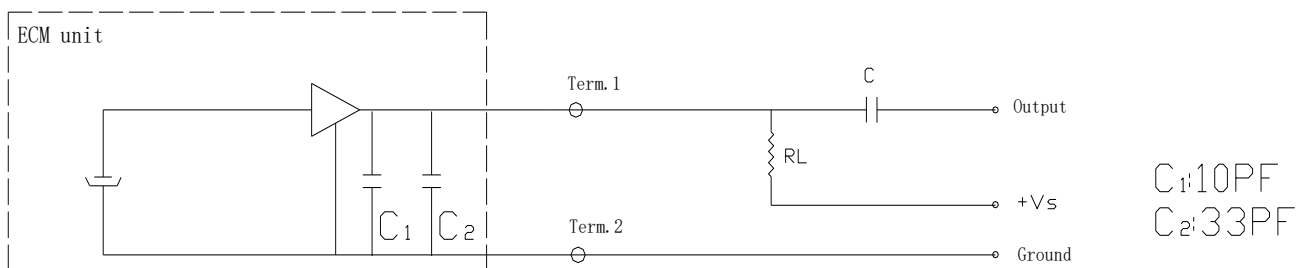
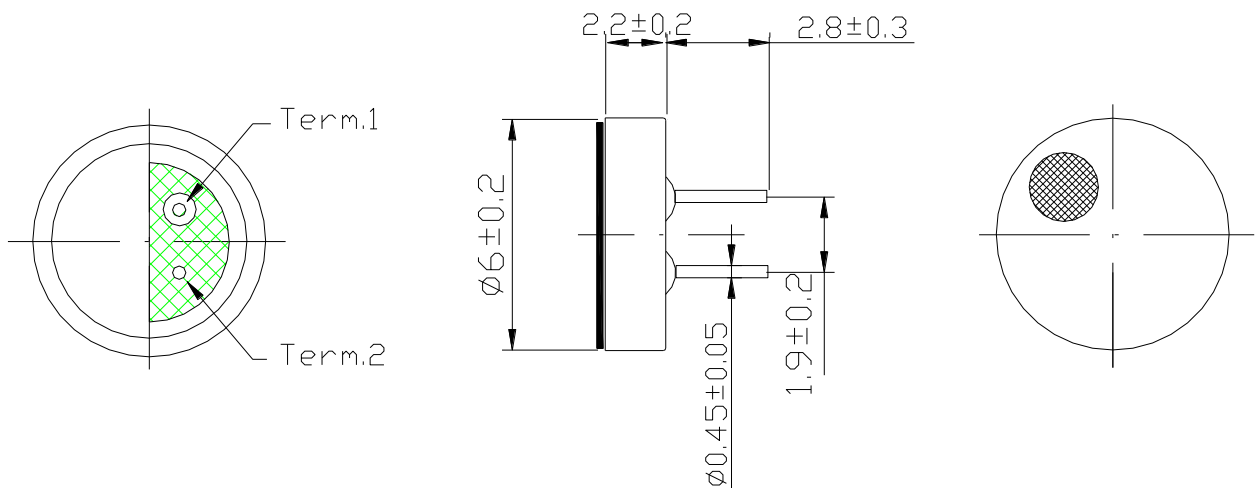
## A.SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Directivity		Omnidirectional	
2	Sensitivity	dB	-42±3dB	F=1KHz 0dB=1V/Pa
3	Standard operating voltage	V	2.0	
4	Output impedance	Ω	2.2K	F=1KHz 1Pa
5	Max. operating voltage	V	10	
6	Sensitivity reduction	dB	<3	At 3.0V to 1.5V
7	Frequency	Hz	100~45000Hz	
8	Max.current consumption	mA	0.5	
9	Signal to noise ratio	dB	>60	F=1KHz 1Pa A weighted
10	Storage temp	°C	-25°C~+70°C	
11	Operating temp	°C	-20°C~+60°C	
12	Dimension	mm	Φ6.0×2.2	See appearance drawing
13	Material		AL	
14	Terminal		Pin Type	See appearance drawing

## B. TYPICAL FREQUENCY RESPONSE CURVE



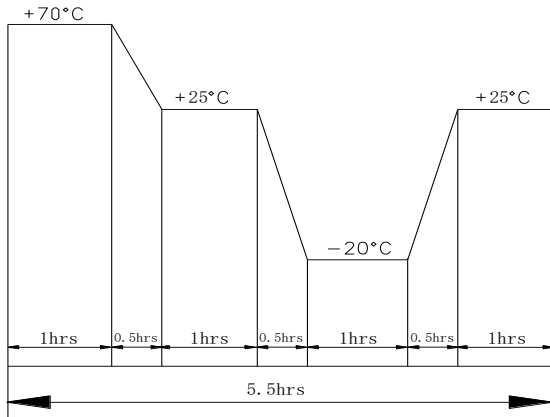
## C. APPEARANCE DRAWING & MEASUREMENT CIRCUIT



## D. MECHANICAL CHARACTERISTICS

NO.	item	Test condition	Evaluation standard
1	Soldering Heat Resistance	Soldering iron of $+330\pm 5^{\circ}\text{C}$ should be placed on the terminal for $2\pm 0.5$ seconds.	No interference in operation
2	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 perpendicular directions for 2 hours.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ of the initial sensitivity.
3	Drop Test	The microphone unit without package must be subjected to each 3 drops at three axis from the height of 1 meter to 20mm thick wooden board.	

## E. ENVIRONMENTAL TEST

NO.	Item	Test conditions	Evaluation standard
1	High temp.test	After being placed in a chamber at $+70^{\circ}\text{C}$ for 72 hours.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ of initial sensitivity after 6 hours of conditioning at $+25^{\circ}\text{C}$
2	Low temp. test	After being placed in a chamber at $-25^{\circ}\text{C}$ for 72 hours.	
3	Humidity test	After being placed in a chamber at $+60^{\circ}\text{C}$ and $90\pm 5\%$ relative humidity for 240 hours.	
4	Temp.cycle test	<p>The part shall be subjected to 10 cycles. One cycle shall consist of:</p> 	

### TEST CONDITION.

Standard Test Condition:      a)Temperature: $+5\sim +35^{\circ}\text{C}$       b)Humidity:45-85%      c)Pressure:860-1060mbar  
 Judgement Test Condition:      a)Temperature: $+25\pm 5^{\circ}\text{C}$       b)Humidity:60-70%      c)Pressure:860-1060mbar