

SPECIFICATIONS

Model

No.

UGCM0603APE

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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage	V	3.0
1-2	Operating Voltage	V	2.0-4.0
1-3	* Mean Current Consumption(Max)	mA	110
1-4	* Min Sound Output at 10cm	dB	70
1-5	* Resonant Frequency	Hz	3100
1-6	Coil Resistance	Ω	8 ± 1
1-7	Operating Temperature	$^{\circ}\text{C}$	-30~+70
1-8	Storage Temperature	$^{\circ}\text{C}$	-40~+85
1-9	Weight	g	1
1-10	Housing Material	NORYL	
1-11	Lead Pin Material	Red Copper (DSn)	

* Value Applying at Rated Voltage (resonant frequency, 1/2 duty, square wave)

		15.11.17	ZhuYu	ShiCong	Wang Xue Wen
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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Low temp.	Storage in $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5	Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$.

PASS CRITERION :

After these tests , the change of S.P.L shall be within $\pm 5\text{ dB}$.

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3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : $25 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : $15 \sim 35^{\circ}\text{C}$

Relative humidity : 45% ~ 85%,

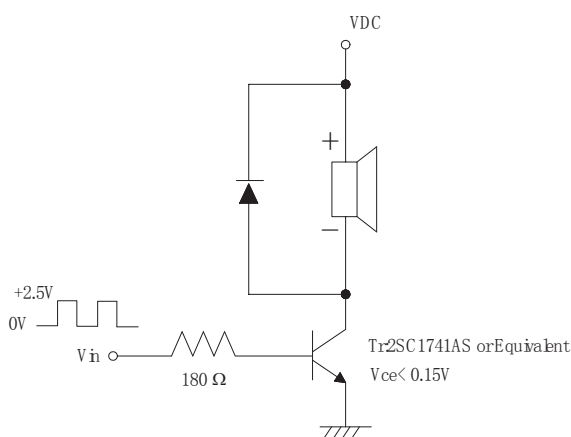
Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

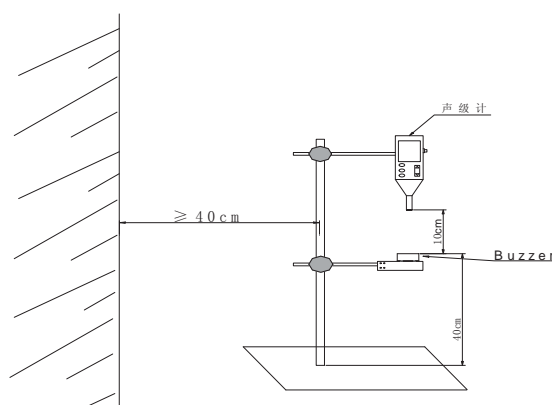
1.rated Voltage(Square wave):3.0V

2.Resonant Frequency:3100Hz

3.Standard Drive Circuit:



4. Standard test fixture:



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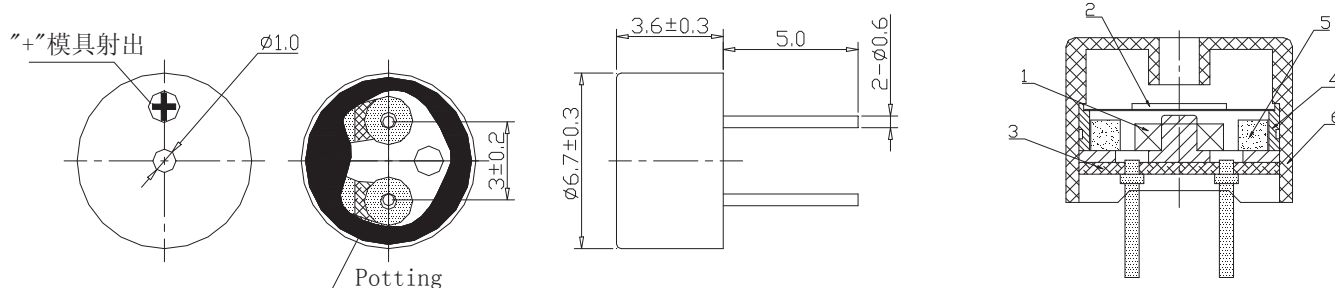
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5.DIMENSIONS

Unless otherwise specified,tolerance: ± 0.5 (unit:mm)



Cadmium(Cd)/Cndmium Compounds	$\leq 100\text{ppm}$
Lead (Pb) / Lead Compounds	$\leq 800\text{ppm}$
Mercury (Hg) Merrcury Compounds	$\leq 800\text{ppm}$
Hexavalent-Chromium (Cr6+) Compounds	$\leq 800\text{ppm}$
PBB	$\leq 800\text{ppm}$
PBDE	$\leq 800\text{ppm}$

- 1) All parts must be meet to ROHS.
- 2) Wave solder allowed, wash not allowed.

Part No.	Part Name	Q'TY	Material	Remark
6	Housing	1	Noryl	
5	Brass rsing	1	Copper	
4	Core	1	Ferrite	
3	PCB	1		
2	Diaphragm	1	Iron	
1	Coil Part	1	Copper And Iron	

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