

MESSRS. 客戶公司行號

**SPECIFICATION FOR APPROVAL**

**承 認 書**

Product	PIEZO BUZZER (SELF DRIVE)
Part No.	KYU420R15
Customer Approval	
Customer Part No.	

Approved By	Checked By	Made By
 <p>工程部 JASON CHEN NOV-20-2012</p>	 <p>工程部 ZACK GUO NOV-20-2012</p>	 <p>工程部 JERRY CHEN NOV-20-2012</p>

**KOYO ELECTRONICS COMPANY LIMITED**

**RoHS**

# 1. SPECIFICATION

KYU420R15

ITEM		UNITS	SPECIFICATIONS	CONDITIONS
01	Rated Voltage	V	12	VDC
02	Operating Voltage	V	3~ 16	
03	Rated Current	mA(Max)	8	Rated Voltage
04	Sound pressure level (Distance at 30cm )	dBA(Min)	90	Rated Voltage Rated Frequency
05	Rated Frequency	Hz	3700	Rated Voltage
06	Resonant Frequency	Hz	3700± 500	
07	Tone Nature	Single		
08	Operating Temp.	°C	-20 ~ +60	
09	Storage Temp.	°C	-30 ~ +70	
10	Weight	g	4	

## 2. MEASURING METHOD

### 2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

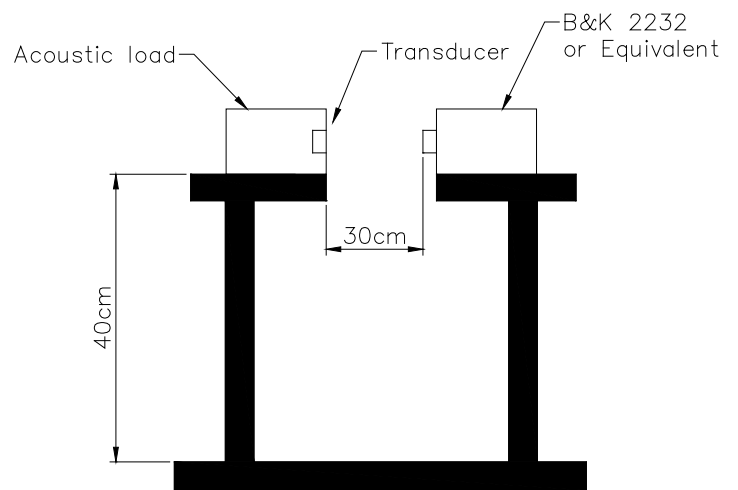
JUDGEMENT

Temperature : 20±3°C

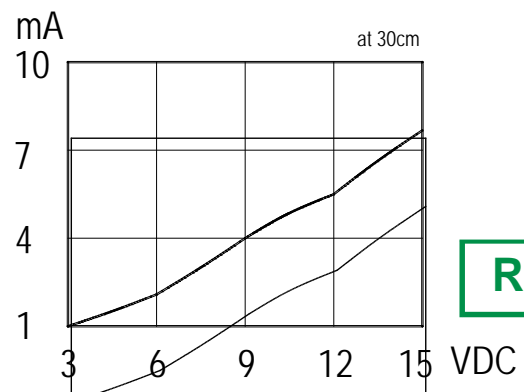
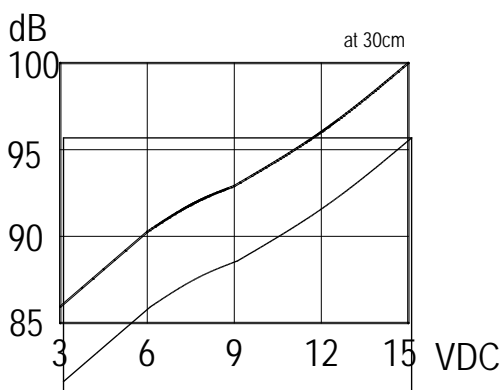
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

### 2-2. Standard Test Fixture

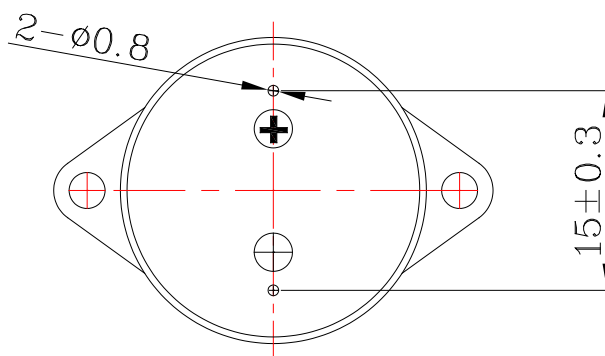
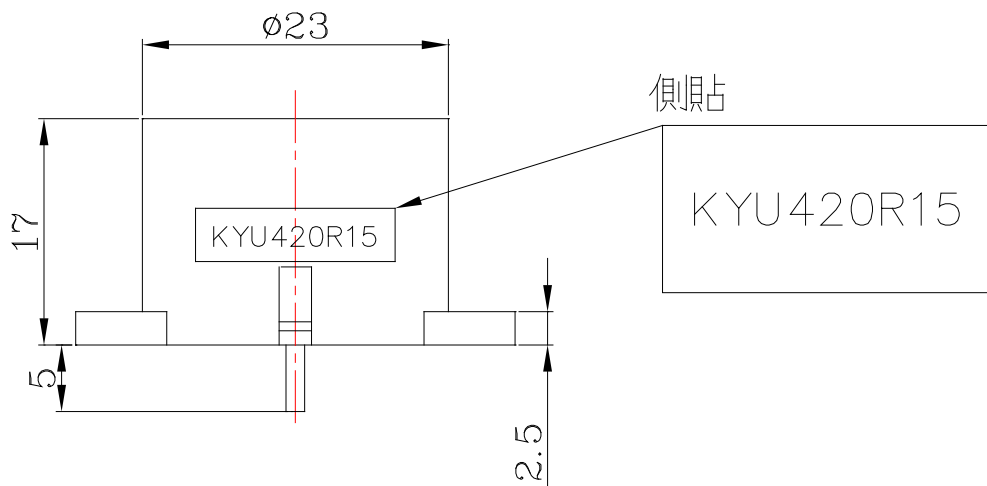
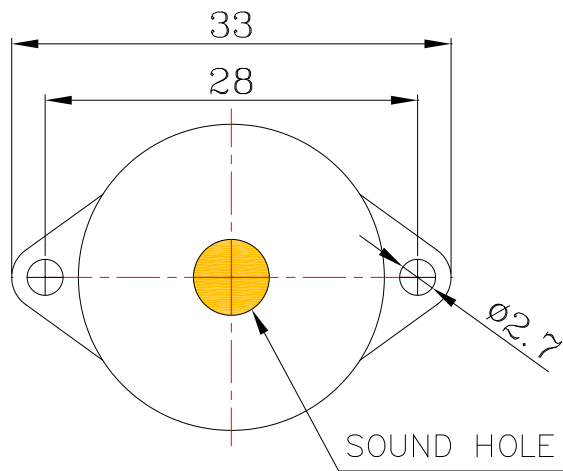


### 2-3. Frequency Response Curve



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REV NO.	REVISION NOTE	APPROVAL	DATE
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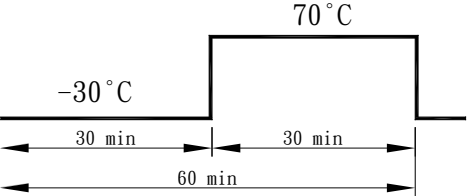
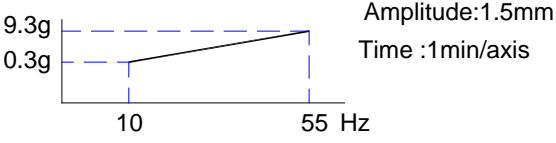


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TITLE: PIEZO BUZZER	DRAWN: Jerry 2012/11/20	SCALE: 2:1	SHEET: 1 of 1
PART NO. KYU420R15	DESIGNED: R & D	UNITS: mm	TOLERANCE $\pm 0.5$
DWG NO. UGPA23FX3712P-BSn	2	CHECKED:	UNLESS OTHERWISE SPECIFIED:
	REV	APPROVAL:	ONE PLACE DECIMAL $\pm$ ***
	MATERIAL: ABS		TWO PLACE DECIMAL $\pm$ ***
			THREE PLACE DECIMAL $\pm$ ***

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## 4. RELIABILITY TESTS

Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of +70°C for 96 hours.	<p>1. After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L</p> <p>2. S.P.L shall be <math>\pm 7</math> dB.</p>
02 Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours.	
03 Temp. cycle	<p>The part shall be subjected 10 cycles. One cycle shall of ;</p> 	
04 Temp./Humidity cycle	The part shall be subjected with 90-95% R.H at +40°C for 96 hours.	
05 Free drop (Packing)	The part only shall be dropped from a height of 100cm onto a 10mm thick wooden board 1 times in 3 axes (X.Y.Z). (a total of 3 times).	
06 Lead Strength	Pull lead with a force of 9.8N, on the direction of the lead axis for 10 :10 $\pm$ 1 sec	
07 Vibration	 <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>	

If you need more information, please contact our technology department, thank you.

## 5. SOLDERING CONDITION

Recommend using constant searing-iron in temperature range  $360 \pm 5^\circ\text{C}$ .  
Soldering time 2 seconds.