

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	PIEZO BUZZER (EXTERNAL DRIVE)
Part No.	1112(RoHS)
Customer Approval	

Approved By	Checked By	Made By
ERIC WANG APR-26-2006	KITTY DING APR-26-2006	LILY ZHAO APR-26-2006

KOYO ELECTRONICS COMPANY LIMITED

1. Specifications

1112(RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	Vp-p	10	(square wave)
02	Operating Voltage	Vp-p	3~30	
03	Rated Current	mA(Max)	11	
04	Sound Output At 10cm	dBA(Min)	92	At 10Vp-p ,4KHz / 10cm
05	Resonant Frequency	Hz	4000	
06	Capacitance	pF	25000 ± 30%	At 1000Hz
07	Operating Temp.	°C	-20 ~ +70	
08	Storage Temp.	°C	-40 ~ +85	
09	Weight	g	2.5	

2. Measuring Method

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

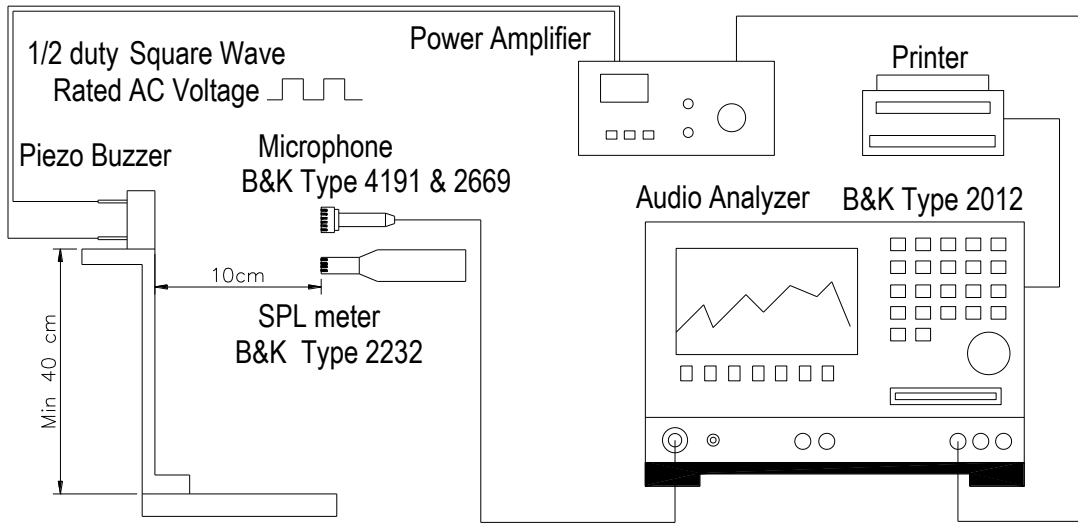
JUDGEMENT

Temperature : 20±3°C

Relative humidity : 60% ~ 70%,

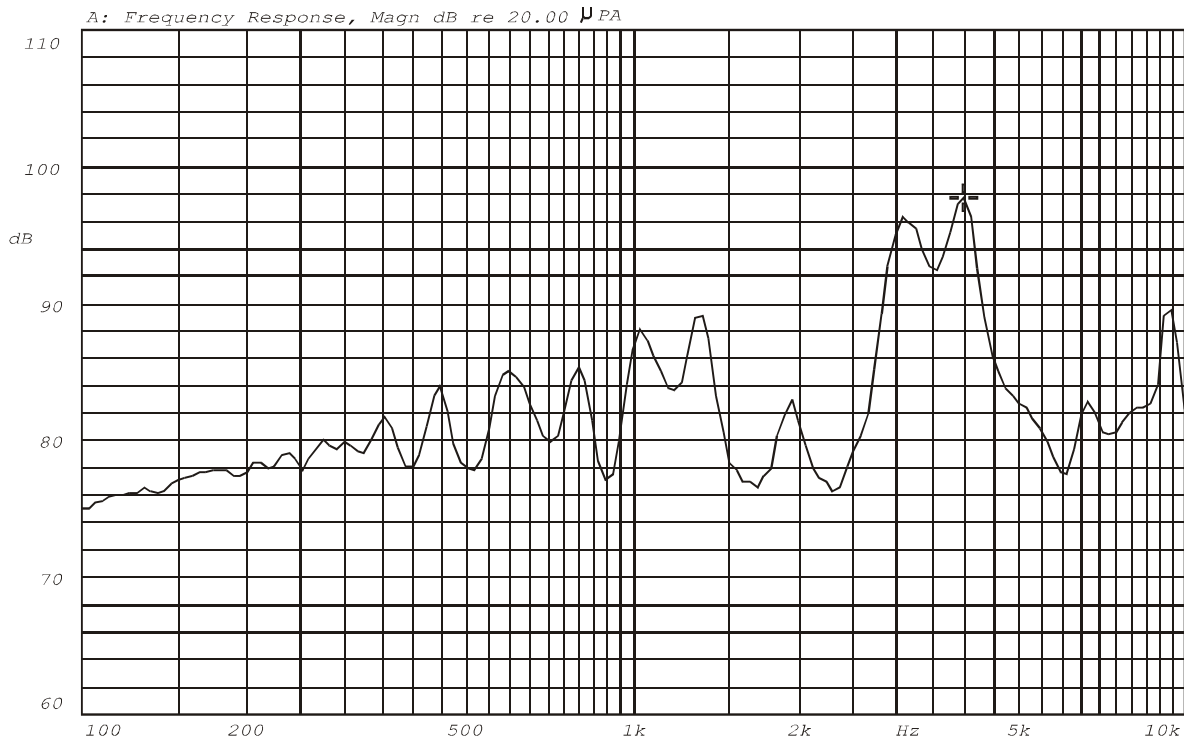
Atmospheric pressure : 860mbar to 1060mbar

2-2. Standard Test Fixture



2-3. Frequency Response Curve

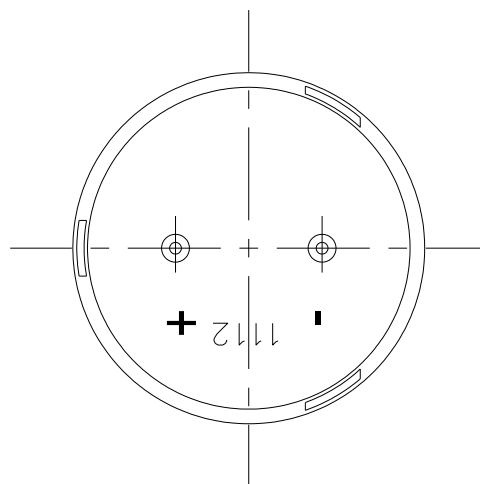
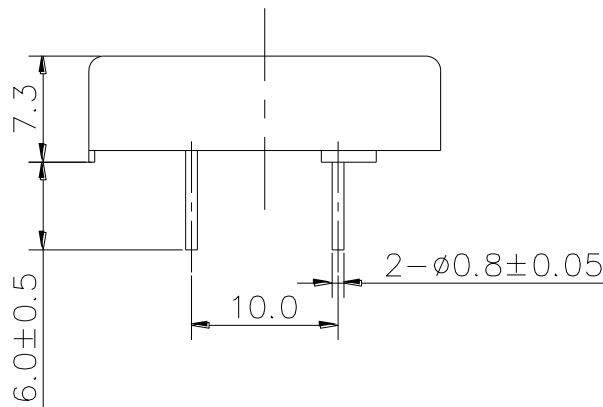
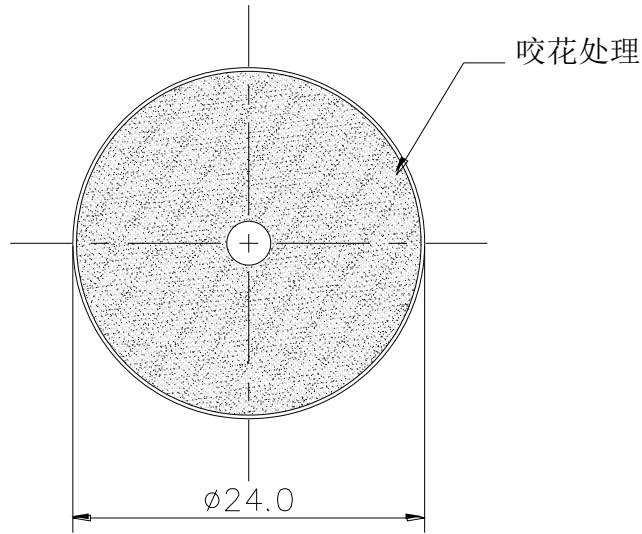
X:3.9811kHz Y:97.75dB ZA:Live Curve SSR T. RMS



Mode: SSR



REV NO.	REVISION NOTE	APPROVAL	DATE
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TITLE: <i>PIEZO BUZZER</i>	DRAWN: <i>Ellen</i> 05/12/08	SCALE: 2:1	SHEET: 1 of 1
PART NO. <i>1112(RoHS)</i>	DESIGNED: <i>R & D OF AAT</i>	UNITS: <i>mm</i>	
DWG NO. <i>DPE-1058</i>	CHECKED:	TOLERANCE ± 0.3	
REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
	MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL \pm ***	
		TWO PLACE DECIMAL \pm ***	
		THREE PLACE DECIMAL \pm ***	



4. Reliability Test

Item		Conditions	Evaluation standard
01	Low Temp. Storage Test	-40°C ±2°C , 240Hr	After the test the part shall meet specifications without Any degradation and performance except S.P.L S. P. L shall be 84dB or more.
02	High Temp. Storage Test	85°C ±2°C , 240Hr	
03	Temp. /Humidity Storage Test	40°C ±2°C , RH90-95% 240Hr	
04	Thermal Shock Test	-40°C ±2°C (0.5Hr) → , 20°C ±2°C (0.25Hr) 85°C ±2°C (0.5Hr) → , 20°C ±2°C (0.5Hr) 5 cycles	
05	Vibration Test	10-55Hz/2 Hr amplitude 1.5mm X, Y, Z, 3 directions	
06	Mechanical Shock Test	+100G, Half Sine wave, XYZ , 3 impacts per axis , 3 times.	
07	Free Drop Test	The part shall be dropped freely from a height of 75 cm X, Y, Z, 3 directions 3 times (total 9 times)	
08	Life Burning Test	The part shall be subjected to 500 hrs in the room temp with rated voltage applied	
09	Lead Strength Test	Pull Lead with a force of 10N, on the direction of the lead axis for 10±1 sec.	