SPECIFICATION

Customer :

Cusomer No:

Applied To :

Product Name : Piezo Buzzer

Model Name : KPI-G2610(With KEPO)

Drawing No. : KP3.840.013.04R

Compliance with RoHS

Signature of Approval

Signature of KEPO

Approved by	Checked by	Issued by	Date

ISO9001 Certificate

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

CONTENTS

1. Scope

2. General

3. Electrical and Acoustic Characteristics.

4. Reliability Test

5. Measurement Block Diagram &Response curve

6. Structure

7. Dimensions

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

1. Scope

This product specification is applied to the piezoelectric sounder in alarm systems.Please contact us when using this product for any other applications than described in the above.

2. General

2.1 Out-Diameter : Ø23 mm

2.2 Height : 9.8 mm

2.3 Weight : 4 g

2.4 Operating Temperature range:
-20÷ +80°C without loss of function

2.5 Store Temperature range:
-30÷ +100°C without loss of function

3. Electrical and Acoustic Characteristics.

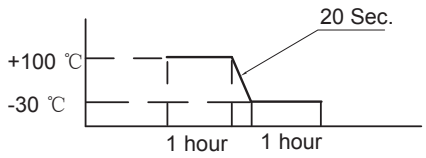
Test condition : 15 ÷ 35°C , 25% ÷ 85% RH, 860÷1060 mbar

	Items	Specification
1	Rated Voltage	12VDC
2	Operating Voltage	3-24VDC
3	Max.Rated Current	10mA at 12VDC
4	Resonant Frequency	3.5± 0.5KHz
5	Min.Sound Pressure Level	85dB at 12VDC/30cm
6	Tone Nature	Continuous
7	Case Material/Color	PC/BLACK

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

4. Reliability Test

After test(1~7item), the transducr S.P.L . difference shall be within ± 10dB, and the appearance not exist any change to be harmful to normal operation(e.g. cracks,rusts,damages and especially distortion).

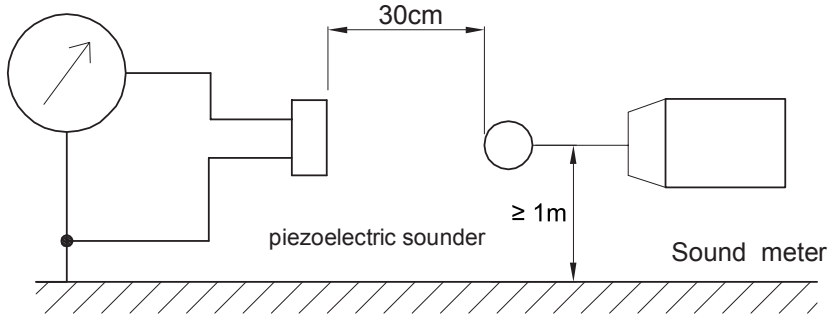
	Item	Specification
1	High Temperature Test	After being woked in a chamber with +100± 2 ℃ for 2h and then being placed in natural condition for 2h, sounder shall be measured.
2	Low Temperature Test	First being worked in a chamber with -30± 2 ℃ for 2h and then being placed in a chamber with -30± 2 ℃ for 16h, finally being placed in natural condtion for 2h, sounder shall be measured.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at +40± 2℃ for 2 h and then being placed in natural condition for 2h , sounder shall be measured.
4	Thermal Shock Test	After being worked in a chamber at +100± 2 ℃ for 1 hour, then sounder shall be placed in a chamber at -30± 2 ℃ for 1 hour(1 cycle is the below diagram). After 6 above cycles, sounder shall be measured after being placed in natural condition for 1 hour. 

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

4. Reliability Test

	Item	Specification
5	Vibration Resistance	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to30Hz band of vibration frequency to each of 3 perpendicular directions for 2 hour.
6	Drop Test	Sounder packed in the carton are dropped in six direction from the height of 80cm to the concrete floor.
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and the immersed in solder bath of +260± 5° C for 3± 0.5 seconds.
8	Terminal Strength Pulling	The force 10 seconds of 9.8N is applied go each terminal in axial direction.

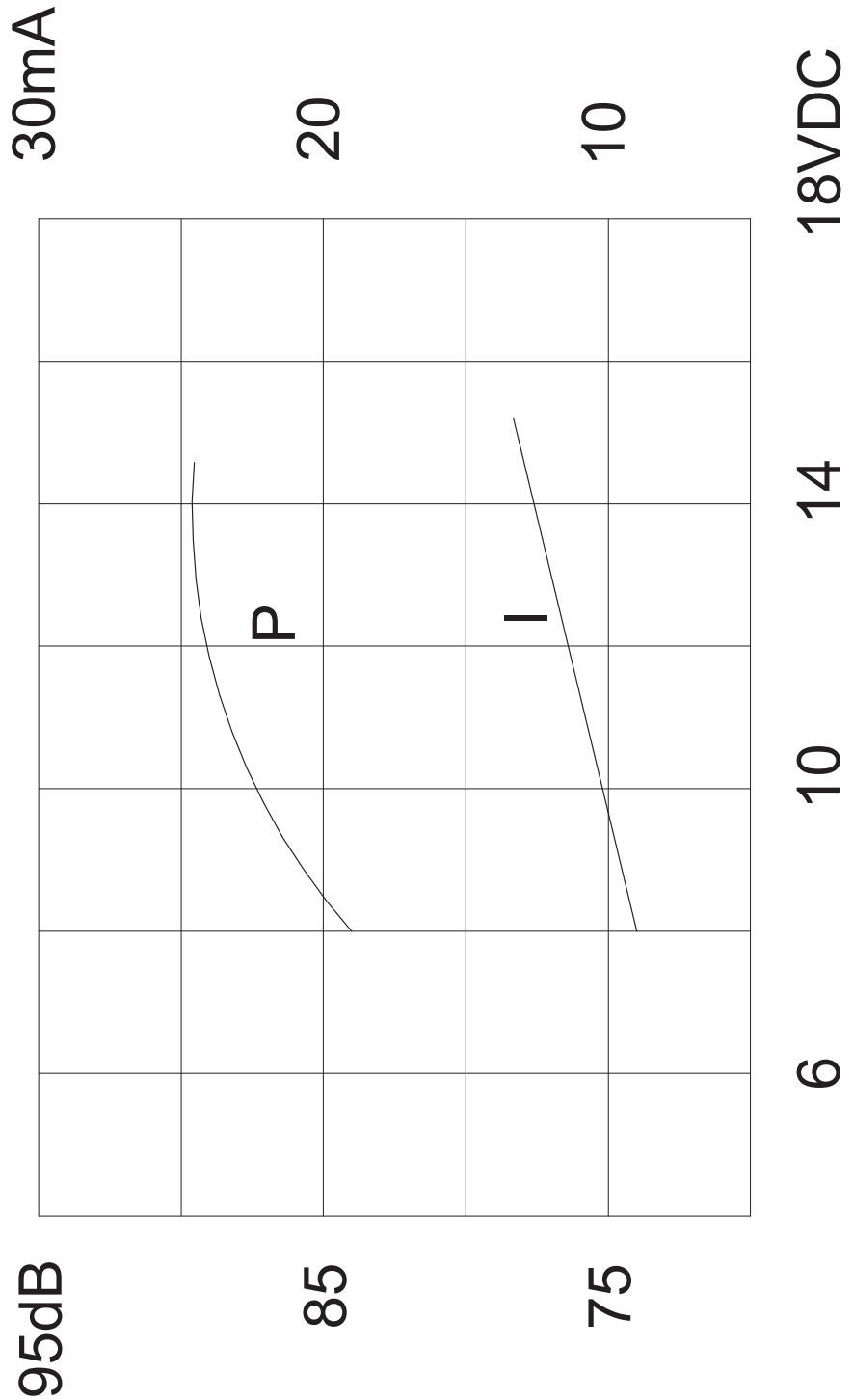
5. Measurement Block Diagram & Response curve



MIC : ND10 S.P.L. or equivalent

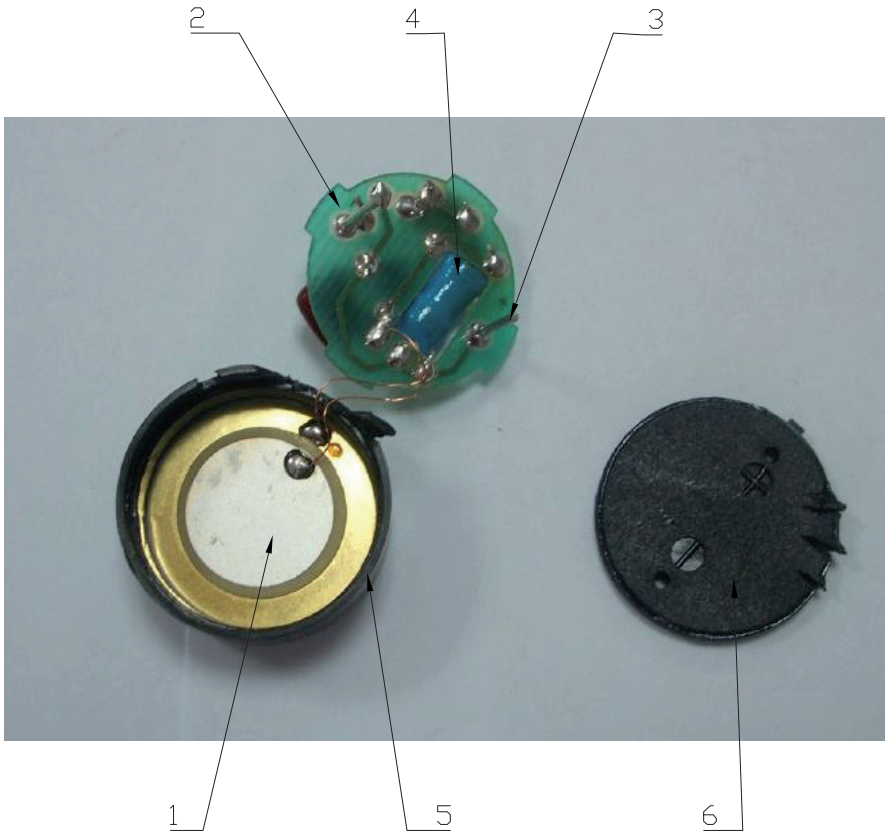
DC Power Supply : DF1730SL2A or equivalent

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R



Specification for Buzzer	Page	
	Revision No.	1.0
Model No. :KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

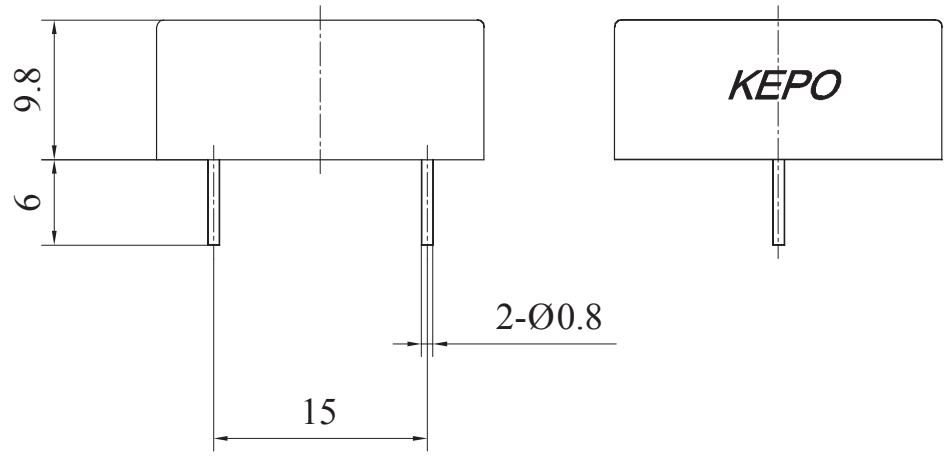
6. Structure

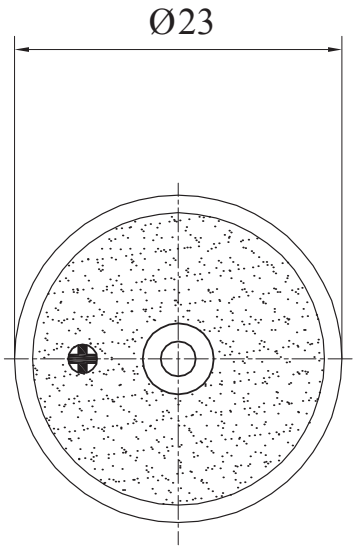


No.	Part Name	Q'TY	Material	Remarks
6	Cover	1	PC	
5	Case	1	PC	
4	Component	/	/	
3	Pin	2	H62	
2	PCB	1	FR-4	
1	Piezo-Element	1	H68 Piezo Ceramic	

Specification for Buzzer	Page	
	Revision No.	1.0
Model No. : KPI-G2610(With KEPO)	Drawing No.	KP3.840.013.04R

7. Dimensions





FIRST ANGLE PROJECTION

UNIT : mm
Tolerance : ± 0.5