SPECIFICATION

Customer:

QUARTZ-1

Applied To:

Product Name: High Sound Piezo Transducer

Model Name: PCT-G5720-4228

Drawing No.: OEM4228R

Compliance with ROHS(本品符合ROHS指令)

Sig	Signature of Approval				

Signature of KEPO

Approved by	Checked by	Issued by	Date
100ms	两型性	zumata-	

宁波凯普电子有限公司



Ningbo Kepo Electronics Co.,Ltd.

宁波东钱湖镇东钱湖工业区宝源路 25 号 TEL:+86-574-88370330 FAX:+86-574-88370329

No.25 Baoyuan road Dongqian Lake, Industry Area, Dongqian town, Ningbo City, China(Post Code:315121)

Sales@chinaacoustic.com

www.chinaacoustic.com

Specification for Transducer	Page	2/8
	Revision No.	1.1
Model No.: PCT-G5720-4228	Drawing No.	OEM4228R

CONTENTS

1. Scope

范围

2. General

概要

3. Maximum Rating

额定极限条件

4. Electrical Characteristics

电性能

5. Measuring Method

测试方法

6. Physical Characteristics

机械性能

7. Environmental Characteristics

环境性能

8. Dimensions

尺寸

9. Packaging Standard

包装标准

10. Cautions

警告

11. Cautions for Use

注意事项

12. Revision

履历表

Specification for Transducer		Page	3/8
	PCT-G5720-4228	Revision No.	1.1
Model No. :		Drawing No.	OEM4228R

1. 范围 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.

本规格书适用于压电式蜂鸣器,通常它用在系统中做报警或提示的蜂鸣器用,如果将该 产品用于其它领域,请与我们取得联系。

2. 概要 General

2.1 Out-Diameter: Ø57mm

外径:

Ø57 mm

2.2 Height

: 14.4mm

高度:

14.4mm

2.3 Weight

: 15 gr.

重量:

15克

2.4 Case Material/Color:

PC/Black

壳体材质/颜色: PC/黑

3. 额定极限条件 Maximum Rating

	项目 Item	规格 Specification
3.1	最高输入电压 Maximum input Voltage	60Vp-p Square Wave /max.
3.2	工作温度范围 Operating Temperature Range	-40 ∼ +70℃
3.3	储存温度范围 Storage Temperature Range	-40 ∼ +80℃

4. 电性能 Electrical Characteristics

	项目 Item	规 格 Specification
4.1	声压 Sound Pressure Level	104± 3dB/4.2Vrms Sine Wave/1-5KHz/30cm
4.2	容量 Capacitance at 100Hz	200,000pF± 30%
4.3	最大安装引线拉力 Max Wire Pull	5N (Wire can't bear pull after installation)
4.4	频率 Resonant Frequency	1-5KHz

测试条件参见下项

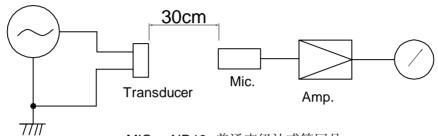
Refer to next item for measuring method.

Specification for Transducer	Page	4/8
	Revision No.	1.1
Model No. : PCT-G5720-4228	Drawing No.	OEM4228R

5. 测试方法 Measuring Method

5.1 声压测试线路 S.P.L. Measuring Circuit

输入信号:4.2Vrms Sine Wave Input Signal:,4.2Vrms Sine Wave



MIC: ND10 普通声级计或等同品 MIC: ND10 Sound Meter or equivalent

S.G.: DF1010 振荡器或等同品

S.G.: DF1010 Oscillater or equivalent

2.5 测试环境 Measuring Condition

温度+25±3℃,湿度60±10%R.H.标准测试状态,在没有疑问的场合,可以在温度+5~+35℃,湿度45~85%R.H.的范围内测试.

Part shall be measured under a condition (Temperature :+5 to +35 $\,^{\circ}$ C,Humidity :45 to 85%R.H.)unless the standard condition (Temperature :+25 $\pm 3\,^{\circ}$ C,Humidity :60 \pm 10 %R.H.) is regulated measure.

6. 机械性能 Physical Characteristics

$ \setminus $	实验项目	实验条件	实验后规格
	Item	Test Condition	Specification
6.1	耐冲击性	峰值加速度490m/s²,半正弦波,XYZ三个方向各3次冲击实验后,测试声响器.	
	Shock	Sounder shall be measured after being applied shock(490m/s²) for each three mutually perpendicular directions to each of 3 times by half sine wave.	符合表1的要求
6.2	耐振动性	振动频率 10~55 Hz,1.5mm 全振幅,XYZ 三个方向各2小时试验后,测试声响器.	The measured value shall meet Table 1.
	Vibration Resistant	Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10 to55Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.	

Specification for Transducer		Page	5/8
<u>'</u>		Revision No.	1.1
Model No. :	PCT-G5720-4228	Drawing No.	OEM4228R

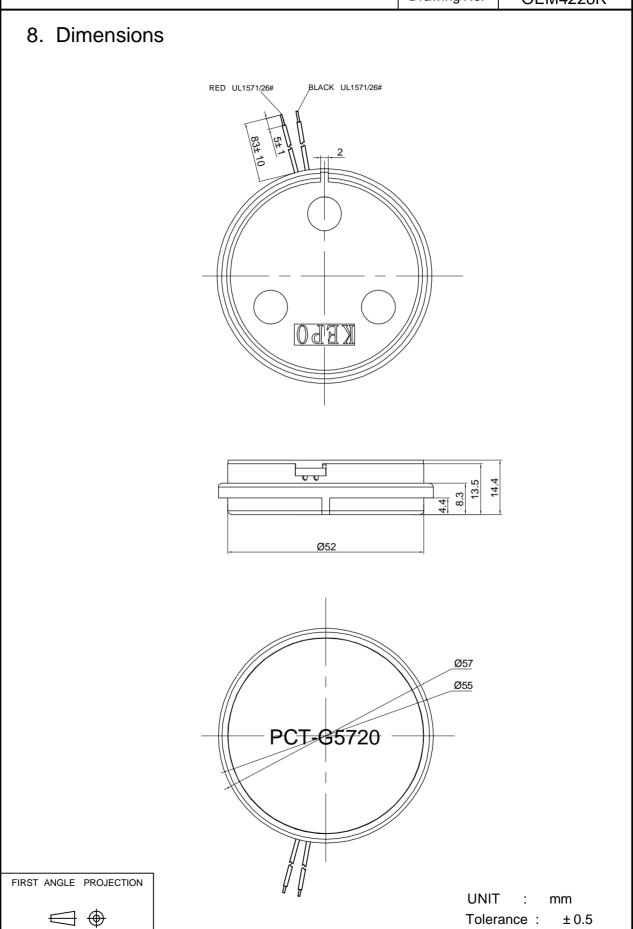
7. 环境性能 Environmental Characteristics

	实验项目 Item	实验条件 Test Condition	实验后规格 Specification
7.1	高温放置	放置于温度+80±2℃的烘箱内96小时,然 后取出,在常温下放置4小时后,测试声响器 。	
	Dry Heat Test (Storage)	After being placed in a chamber with $+80 \pm 2^{\circ}C$ for 96hours and then being placed in natural condition for 4 hours, sounder shall be measured.	
7.2	低温放置	放置于温度-40±3℃的制冷箱内96小时,然 后取出,在常温下放置4小时后,测试声响器。	
	Cold Test (Storage)	After being placed in a chamber with -40 \pm 3°C for 96 hours and then being placed in natural condition for 4 hours, sounder shall be measured.	符合表1的要求 The measured value shall meet Table 1.
7.3	耐湿性 Humidity	放置于 90%~95% R.H.,温度+40±2℃的 环境试验箱内96小时,然后取出,在常温下 放置4小时后,测试声响器。 After being placed in a chamber with 90 to	Table 1.
		95%R.H. at +40±2℃ for 96 hours and then being placed in natural condition for 4 hours, sounder shall be measured.	
7.4	温度循环	先放置于温度-40±2℃的制冷箱内30分钟,然后放置于室温(+20℃)15分钟后,放置于+85±2℃的烘箱内30分钟,再放置于室温(+20℃)15分钟。	
	Temperature Cycle	经过以上循环5次,在常温下放置4小时后,测试声响器。 After being placed in a chamber at -40±2℃ for 30 minutes, sounder shall be placed at room temperature(+20℃). After 15 minutes at this temperature ,sounder shall be placed in a chamber at +85±2℃. After 30 minutes at this temperature, sounder shall be returned to room temperature (+20℃) for 15 minutes. After 5 above cycles, sounder shall be measured after being placed in natural condition for 4 hours.	

表 1 Table 1

项 目	试验后变化量	
Item	Specification after test	
声压级	初始值±10dB	
Sound Pressure Level	Initial Value±10dB	

Specification for Transducer	Page	6/8
	Revision No.	1.1
Model No. : PCT-G5720-4228	Drawing No.	OEM4228R



Specification for Transducer		Page	7/8	
<u>'</u>	PCT-G5720-4228	Revision No.	1.1	
Model No. :		Drawing No.	OEM4228R	

9. 包装标准 Packaging Standard

产品的外包装是纸箱,它应该清楚的标明型号,数量,出厂检验批号. 在运输及储存的过程中,产品必须不会受到机械损伤.

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number.

There shall be no mechanical damage on products during transportation and/or in storage.

10. 擎告 Cautions

如果产品使用于下列高可靠性的装置时,请与我们取得联系,以免对人的生命,财产和身体造成损害.

Please contact us before using our products for the undermentioned applications requiring especially high reliability in order to prevent defects which might directly cause damage to other party'slife, body or property(listed below).

- (1)Aircraft equipment 飞行设备
- (2)Aerospace equipment 航天设备
- (3)Undersea equipment 潜水设备
- (4)Medical equipment 医疗设备
- (5)Transportation equipment (automobiles, trains, ships) 交通设施
- (6)Traffic signal equipment 交通信号设备
- (7)Disaster prevention/crime prevention equipment 防灾害/防犯罪设备
- (8)Data-processing equipment 数据处理设备
- (9)Applications of similar complexity or reliability requirements comparable to the applications listed in the above 以及与上述相类似或可靠性要求更高的设备

11. 注意事项 Cautions for Use

11.1 如果产品所承受的机械应力超过规定的值,元件可能被破坏.

The component may be damaged if mechanical stress over this specification is applied.

11.2 请注意保护工作电路不会因失误,跌落和温度变化而产生浪涌电压.

Please pay attention to protect operating circuit from surge voltage provided by something of force such as failing ,shock and temperature changing.

11.3 请注意永远不要给压电声响器施加直流电压.

Please pay attention never to be applied DC voltage to piezo sounder.

11.4 该声响器不适合洗涤,因为它不密封.

Washing of the component is not acceptable. Because it is not sealded.

11.5 在使用烙铁的情况下,应注意烙铁头的温度应该保持在+350℃以下,并且焊接时间控制在3秒内.

In case of using solder iron for soldering, the top of soldering iron's temperature should be kept less than +350 $^{\circ}$ C. Moreover the soldering time should be also kept with in 3seconds.

Specification for Transducer				Page	8/8			
Model No. : PCT-G5720-4228			Revision No.	1.1				
FC1-G3720-4228				Drawing No.	OEM4228R			
12. Revision								
Rev. No.	DATE	PAGE	DESCRIPTION			SIGN		
1.0	2009.05.18	/	primary					
1.1	2009.12.15	6	print "PCT-G5720"					