規格承認書

PECIFICATION FOR APPROVAL

客戶

CUSTOMER : 立创

項目

ITEM : 贴片式压电无源蜂鸣器(外部驱动)

型號

TYPE : GSC9018RA-5V4000

描述

DESCRIPTION : L9.0 x W9.0 x H1.8 MM 4000Hz 5V ≥70DB 正发音 LCP 材质

客戶料號

CUSTOMER NO. :

規格書號

SPECIFICATION NO.:

版本

EDITION NO. : V1.1

日期

DATE : 2018-7-18

客戶承認

CUSTOMER CONFIRM AND SIGN

COSTONIER COLUMNITA D SIGN			
檢查	審核	承認	
TESTED BY	CHECKED BY APPROVED		

東莞市赢海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

製作	審查	確認	
ISSUED BY	CHECKED BY	APPROVED BY	
周明	刘承成		

也址:廣東省東莞市虎门镇怀德社区雅瑶工业区

對止:HTTP://WWW.INGHAI.COM

A. SCOPE

This specification applies Piezo buzzer, **GSC9018RA-5V4000**

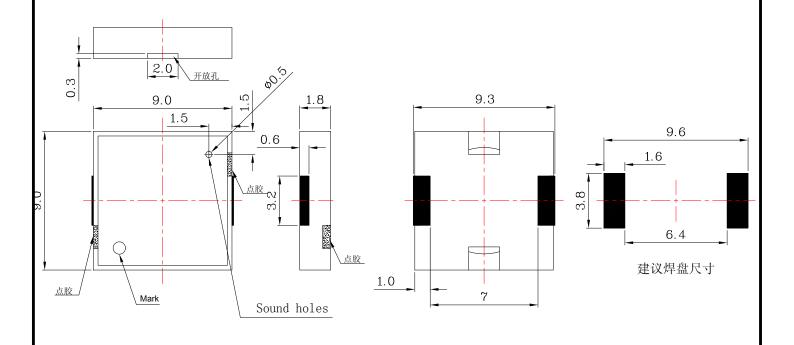
B. SPECIFICATION

No.	ltem	Unit	Specification	Condition	
1	Oscillation Frequency	Hz	4000	Square Wave	
2	Operating Voltage	Vp-p	1~25		
3	Rated Voltage	Vp-p	5		
4	Current Consumption	mA	MAX. 3	at Rated Voltage	
5	Sound Pressure Level	dB	MIN.70	at 10cm at Rated Voltage	
6	Electrostatic Capacity	pF	12000±30%	at 100Hz 1V	
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20~ +70		
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +80		
9	Dimension	mm	9.0 x 9.0 x H1.8	See appearance drawing	
10	Weight (MAX)	gram	0.3		
11	Housing Material		PPA(Black)		
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing	
13	Environmental Protection Regulation		RoHS		

C. APPEARANCE DRAWING

Tol: ± 0.5

Unit: mm



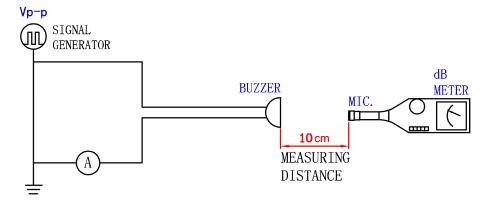
D.TESTING METHOD

Standard Measurement conditions

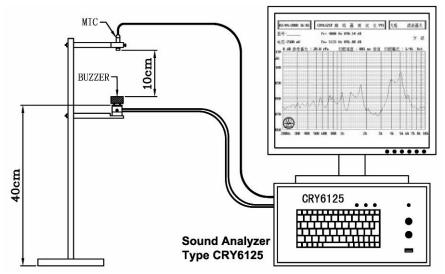
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

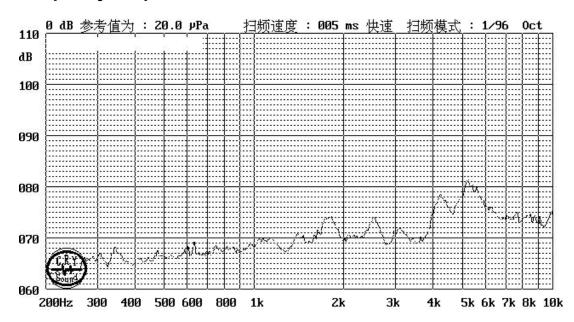
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



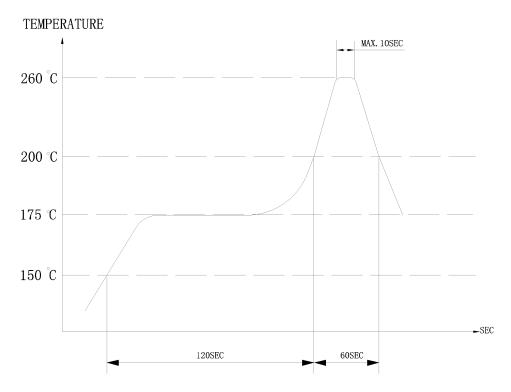
E. Typical Frequency Response Curve



F. Soldering Condition

(1)Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

Note:It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

(Used when heat resistant reliability test is performed)

(2)Manual soldering

Manual soldering temperature 350° C within 5 sec.

G. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with 80ŏ2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ŏ10dB.		
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30ð2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ð10dB.		
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40ŏ2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ŏ10dB.		
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of: +70°C +25°C +25°C -20°C -20°C		
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm. Allowable variation of SPL after test: ð10dB.		
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: ð10dB.		
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300\delta 5°C for 3\delta 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).		
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.		

TEST CONDITION.

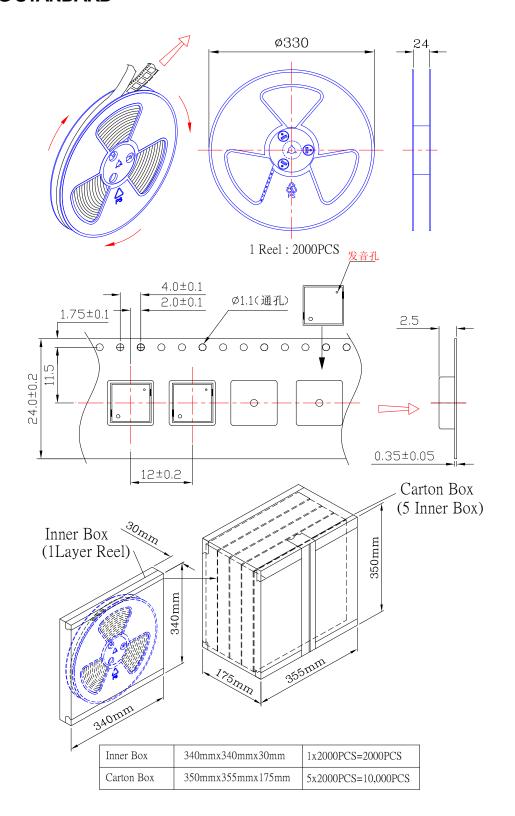
 Standard Test Condition
 : a) Temperature: +5 ~ +35℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

 一般测试条件
 : a) 温度: +5 ~ +35℃
 b) 湿度: 45-85%
 c) 气压: 860-1060mbar

 Judgment Test Condition
 : a) Temperature: +25 ± 2℃
 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 争议时测试条件
 : a) 温度: +25 ± 2℃
 b) 湿度: 60-70%
 c) 气压: 860-1060mbar

H. PACKING STANDARD



Revision History

修改项目	修改前	修改后	修改日期	修改人	确认人
① 编带修改	16 宽	24 宽	2014-7-8	Zhu	
②公差	± 0.2	±0.5	2014-9-26	Zhu	