規格承認書

PECIFICATION FOR APPROVAL

答 户	
CUSTOMER	
項目	
ITEM :	贴片式电磁无源蜂鸣器(外部驱动)
型號	
TYPE :	GSC3320YA-12R4000
描述	
DESCRIPTION:	L3.2x W3.2 x H2.0 MM 4000Hz 12 Ω 120mA ≥70DB 正发音 LCP 材质
客戶料號	
CUSTOMER NO.	: C7507395
規格書號	
SPECIFICATION 1	NO. <u>:</u>
版 本	
EDITION NO. :	V1.0
日期	
DATE	

客戶承認

CUSTOMER CONFIRM AND SIGN

檢查	審核	承認		
TESTED BY	CHECKED BY	APPROVED BY		

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
刘波	刘承成	李海飞

地址: 廣東省東莞市長安鎮上沙第五工区新春科技园

網址: HTTP://WWW.INGHAI.COM

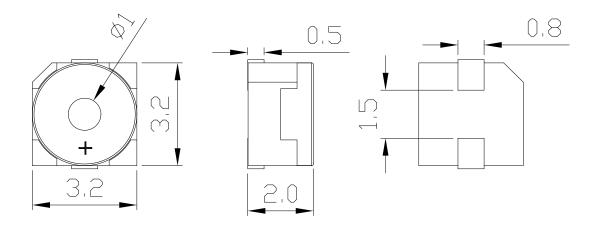
A. SCOPE

This specification applies magnetic buzzer, GSC3320YA-12R4000

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	2~4	
3	Rated Voltage	Vo-p	3	
4	Current Consumption	mA	MAX. 120	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 70	at 5cm at Rated Voltage
6	Coil Resistance	Ω	12±3	
7	Operating Temperature	$^{\circ}$	-20 ~ +70	
8	Storage Temperature	$^{\circ}$	-30 ~ +80	
9	Dimension	mm	3.0 x 3.0 x H2.0	See appearance drawing
10	Weight (MAX)	gram	0.1	
11	Housing Material		LCP(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING



Tol: ± 0.3 Unit: mm

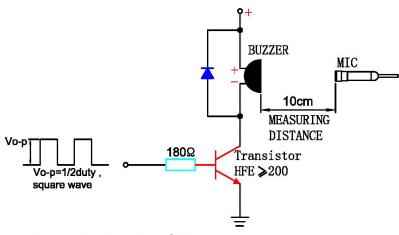
D.TESTING METHOD

Standard Measurement conditions

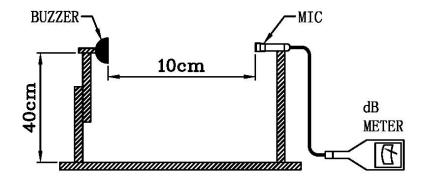
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

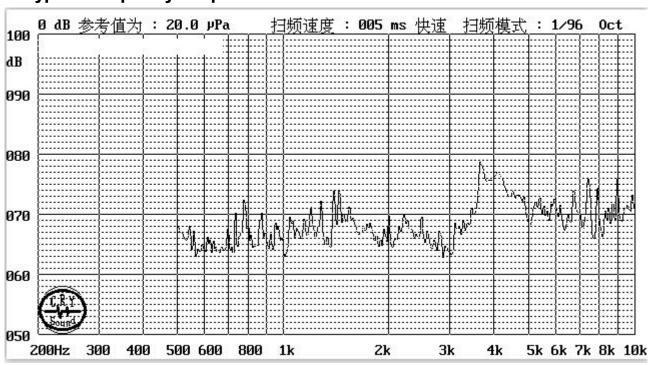
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



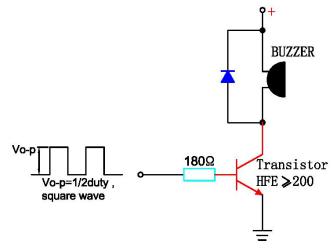
In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



F. Recommend Driving Circuit

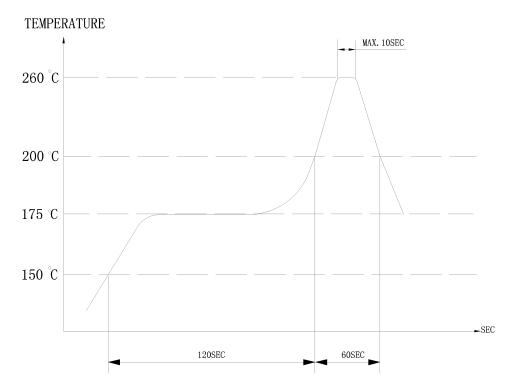


The base current Ib should high enough so that it saturates the collector current of the transistor with the CB load.

G. 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.

H. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT		
1	High Temperature Test (Storage)	After being placed in a chamber with 80 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 2°C for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.		
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of: +70°C +25°C -20°C 0.5 hr 0.5 0.25 3hours Allowable variation of SPL after test: 10dB.		
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: 10dB.		
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: 10dB.		
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 5°C for 3 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 °C
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

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

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

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

I. PACKING STANDARD

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.

