



SPECIFICATION OF PRODUCT

承认书

CUSTOMER:		
DESCRIPTION:	SMD Piezo Buzzer	
FUSHENG P/N:	FUET-2311 12V	
CUSTOMER P/N:		
DATE:	2018-8-28	

CUSTOMER	APPROVER	CHECKER
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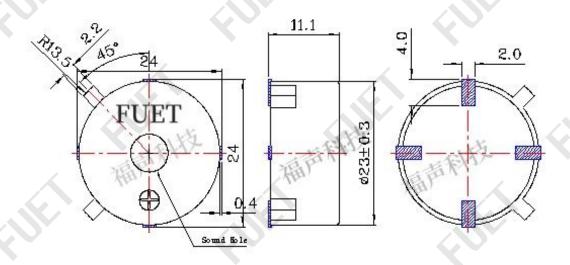




1.SPECIFICATION 规格

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Operating Voltage	Vp-p	1~30	
3	Rated Voltage	Vp-p	12	
4	Current Consumption	mA	MAX. 8	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	25000±30%	at 100Hz 1V
7	Operating Temperature	$^{\circ}$	-40 ~ +85	
8	Storage Temperature	$^{\circ}$	-40 ~ +90	<u> </u>
9	Dimension	mm	Ф23x H11	See appearance drawing
10	Weight (MAX)	gram	3	
11	Housing Material	<	PPS+LCP(Black)	
12	Leading Pin		Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	符合车规使用

2. APPEARANCE DRAWING 尺寸图



Tol: ± 0.5 Unit: mm

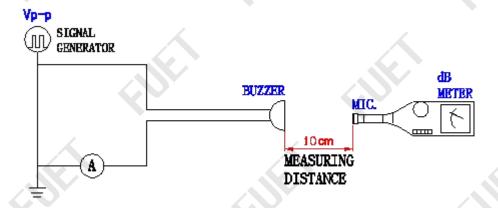
3.TESTING METHOD 测量方式

Standard Measurement conditions

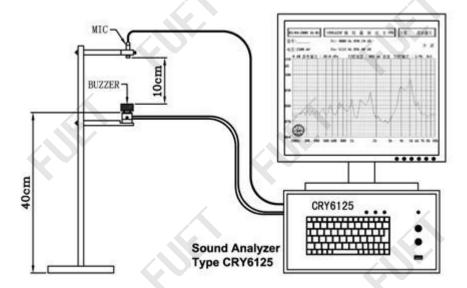
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

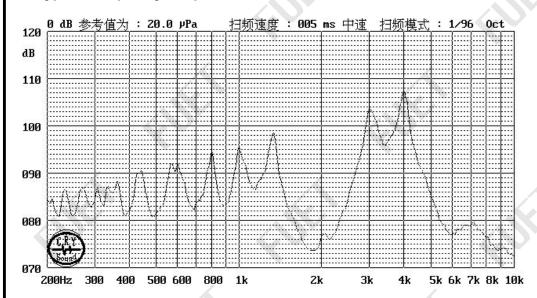
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.



In the measuring test, buzzer is placed as follows:



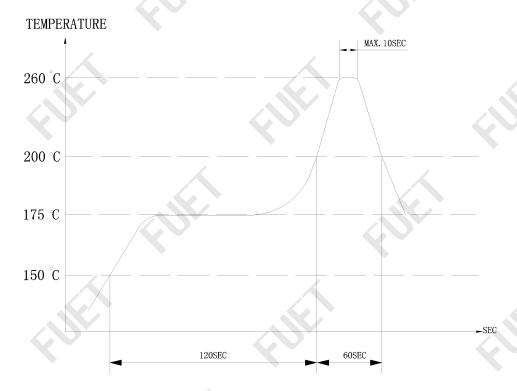
4. Typical Frequency Response Curve



5. 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.

6. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	W. 1. T.	After being placed in a chamber with 90 2°C for 96 hours and then
	High Temperature	being placed in normal condition for 2 hours.
	Test (Storage)	Allowable variation of SPL after test: 10dB.
	Lovy Tomporoturo	After being Placed in a chamber with -40 2°C for 96 hours and then
2	Low Temperature Test (Storage)	being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: 10dB.
	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 2°C for 96
3		hours and then being placed in normal condition for 2 hours.
		Allowable variation of SPL after test: 10dB.
		The part shall be subjected to 5 cycles. One cycle shall be consist of:
		+85°C
	Temperature Cycle Test	+25°C +25°C
4		
		-40°C
		0.5hr
		3hours _
		Allowable variation of SPL after test: 10dB.
	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times,
5		at the height of 75cm.
		Allowable variation of SPL after test: 10dB.
	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz
6		band of vibration frequency to each of 3 perpendicular directions for 2 hours.
		Allowable variation of SPL after test: 10dB.
		Lead terminals are immersed in rosin for 5 seconds and then
	Solderability Test	immersed in solder bath of +300 5°C for 3 1 seconds.
7		90% min. lead terminals shall be wet with solder
		(Except the edge of terminals).
	Torminal Strangth	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for
8	Terminal Strength Pulling Test	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

