



## SPECIFICATION OF PRODUCT 承认书

CUSTOMER: \_\_\_\_\_  
DESCRIPTION: Piezo Buzzer  
FUSHENG P/N: FUET-1760  
CUSTOMER P/N: \_\_\_\_\_  
DATE: 2019-8-28

CUSTOMER	APPROVER	CHECKER
	Cui	

### 泰州福声电子科技有限公司

地址:江苏省泰州市海陵区凤凰西路 98 号

电话: 0086-523-86219066 传真: 0086-523-81601108

邮箱: sales@electronic-tech.cn

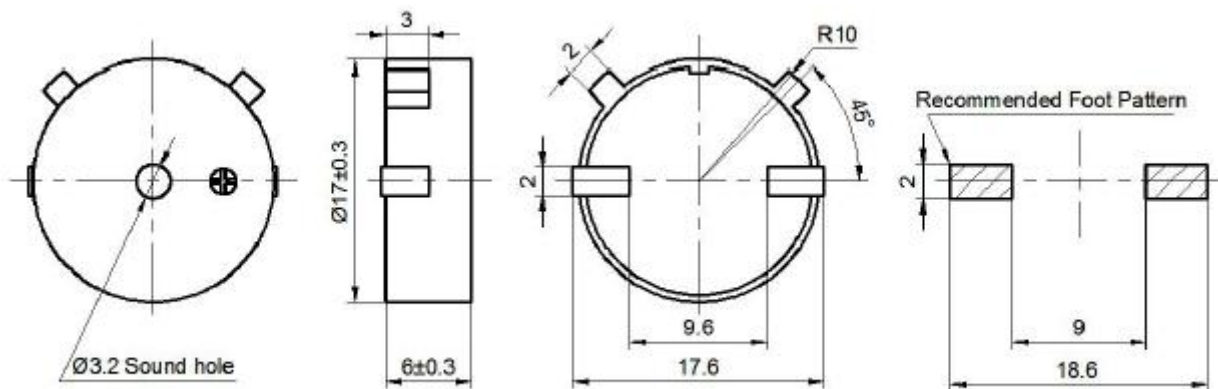
网址: [www.tzfsdz.com](http://www.tzfsdz.com)



## 1.SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Oscillation Frequency	Hz	4000	square wave
2	Operating Voltage	Vp-p	1 ~ 25	
3	Rated Voltage	Vp-p	3	
4	Current Consumption	mA	MAX.12	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 90	at 10cm at Rated Voltage
6	Electrostatic Capacity	pF	15000±30%	at 100Hz 1V
7	Operating Temperature	°C	-30 ~ +85	
8	Storage Temperature	°C	-40 ~ +85	
9	Dimension	mm	17 x H 6.0	See appearance drawing
10	Weight (MAX)	gram	1.0	
11	Housing Material		LCP( Black )	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

## 2. APPEARANCE DRAWING 尺寸图



± 0.3 Unit: mm

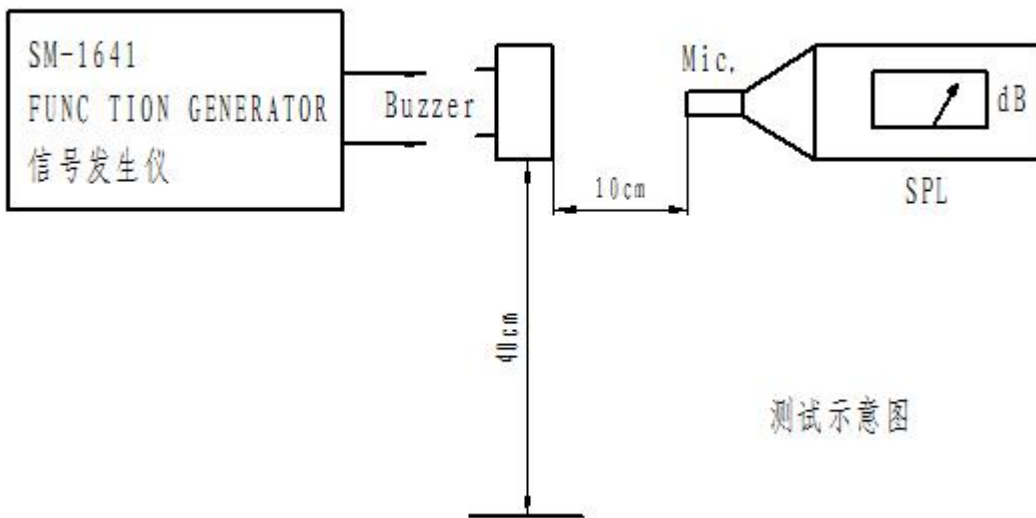
### 3. TESTING METHOD 测量方式

#### Standard Measurement conditions

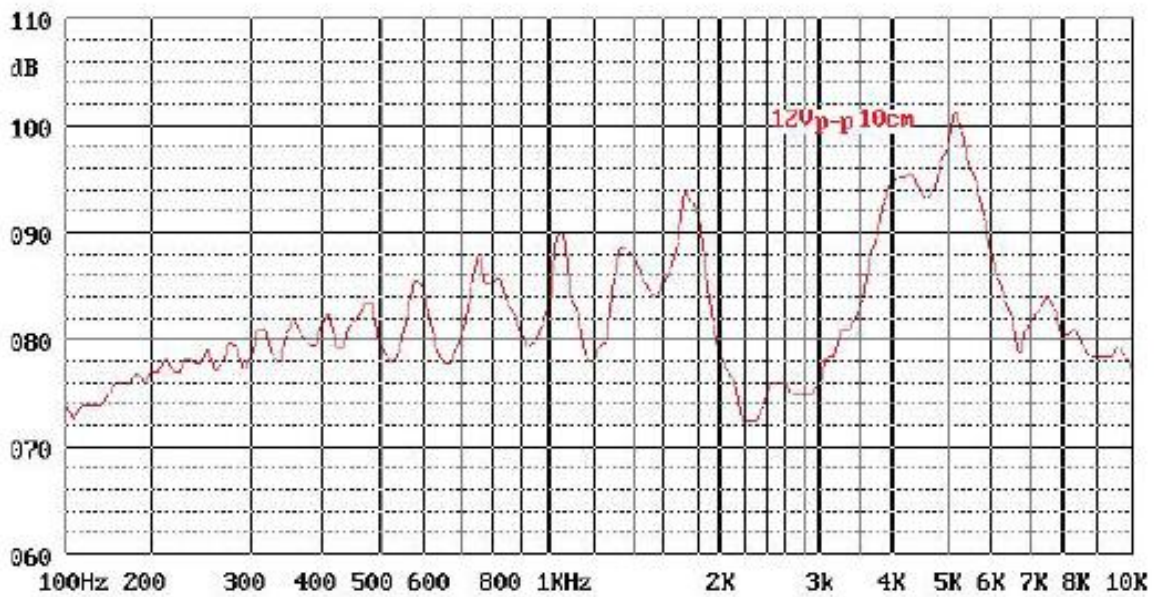
Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

#### Acoustic Characteristics:

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



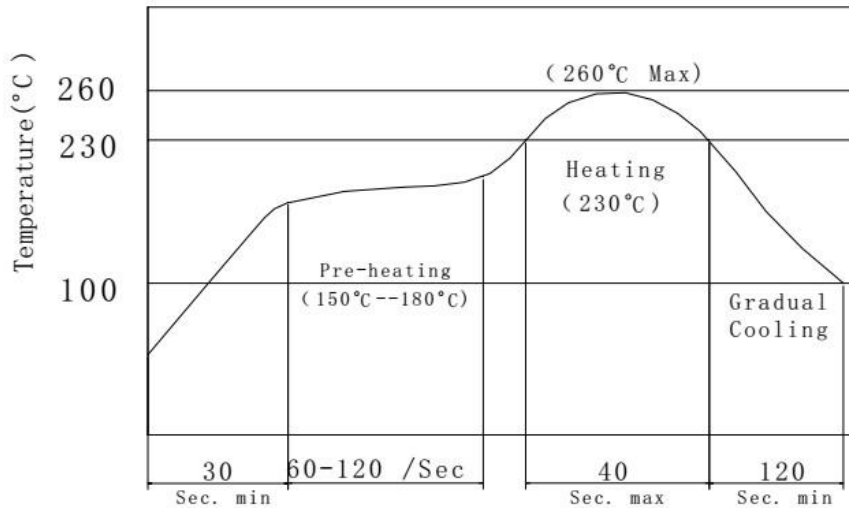
### 4. Typical Frequency Response Curve



## 5.Surface mounting condition

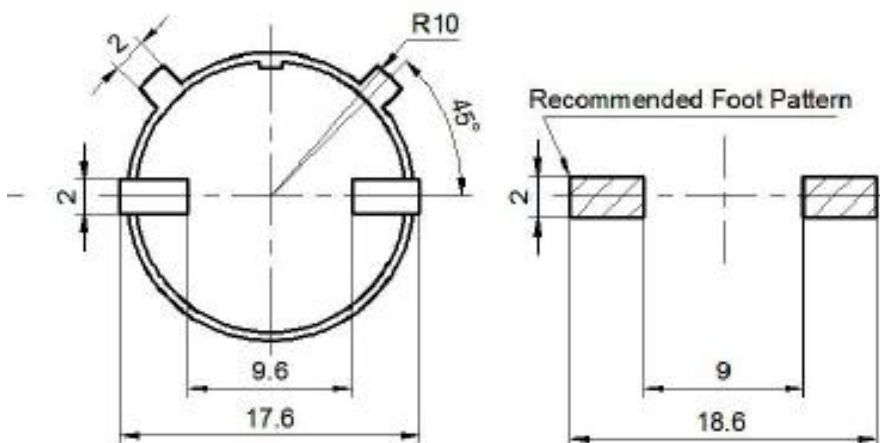
### 5.1 Reflow soldering

Recommendable reflow soldering condition is as follows.

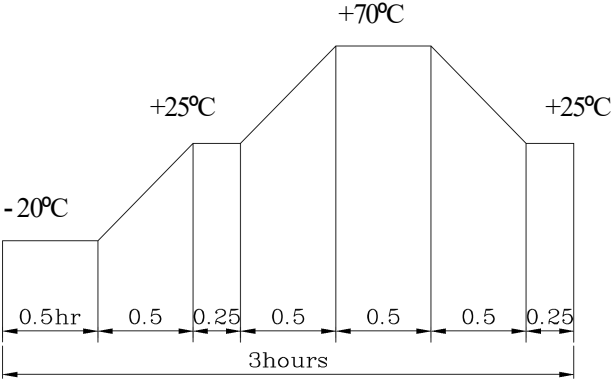


- Note:** (1) In automated mounting of the SMD sound transducers on PCB, any bending, expanding and pulling forces or shocks against the SMD sound transducers shall be kept minimum to prevent them from electrical failures and mechanical damages of the devices.  
 (2) In the reflow soldering, too high soldering temperatures and too large temperature Gradient such as rapid heating or cooling may cause electrical failures and mechanical damages of the devices.

### 5.2 Soldering pattern



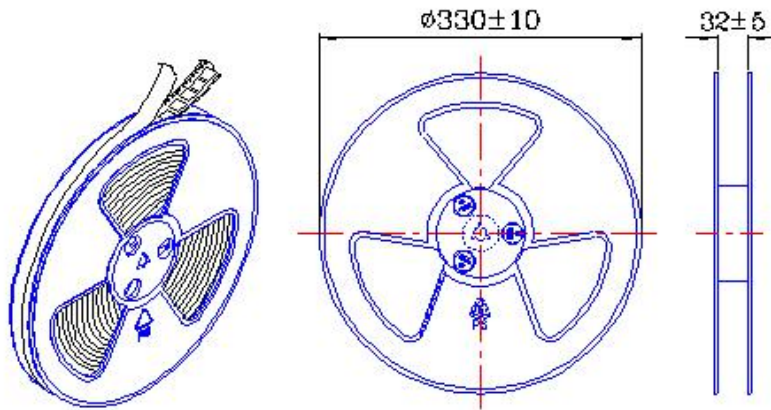
## 6. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80 °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 °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 °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:  <p>The diagram shows a temperature cycle profile over 3 hours. It starts at -20°C for 0.5 hours, then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, ramps up to +70°C in 0.5 hours, holds at +70°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, and finally ramps down to -20°C in 0.5 hours. The total duration is 3 hours.</p> 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 °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.

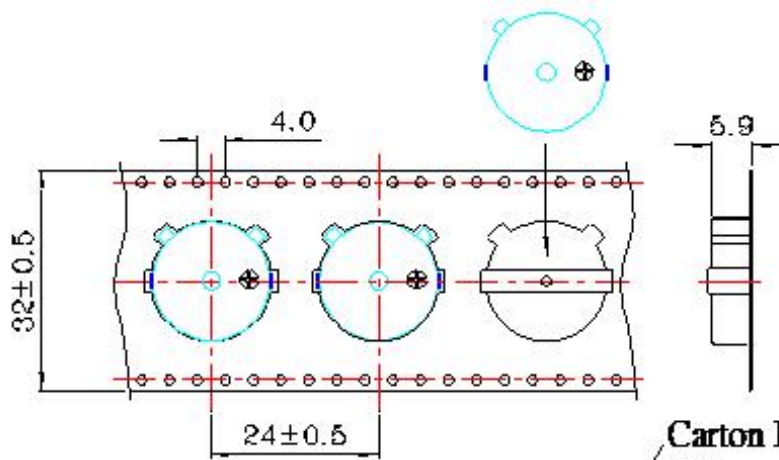
### TEST CONDITION.

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

## 7. PACKING STANDARD

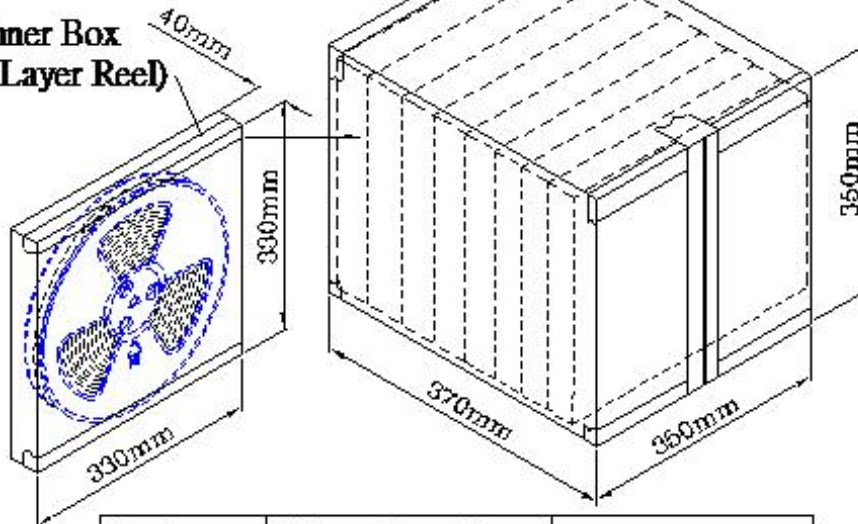


1 Reel : 400PCS



Carton Box  
(8 Inner Box)

Inner Box  
(1 Layer Reel)



Inner Box	330mmx330mmx30mm	1x400PCS=400PCS
Carton Box	350mmx350mmx370mm	8x400PCS=3200PCS