

### PRODUCT SPECIFICATION

Product Name:		Piezo Buzzer
Part	Number:	MSPS23B33W100V12
Docu	ment No:	
Date:		2021.05.22

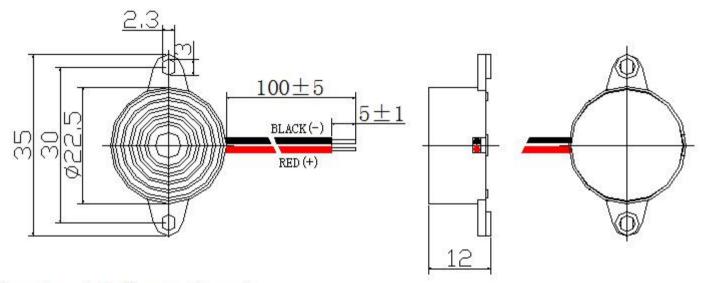
DRAWING BY	CHECKED BY	APPROVED BY
CHEN YUAN	YUE QIN	JIN LI

#### 1.SPECIFICATION



TYPE (UNIT)	MSPS23B33W100V12
Min. Sound Output at 10cm (dB)	95
Rated Voltage VDC	12
Operating Voltage VDC	1.5~24
Resonant Frequency (Hz)	3300+/-500
Max. Current Consumption (mA)	12
Tone Nature	Continuous
Operating Temperature (C)	-20~+60
Storage Temperature (C)	-30~+70
Weight (g)	4

#### 2.APPEARANCE DRAWING



PCB material: Epoxy Board

Housing material: ABS

(UNIT:MM)

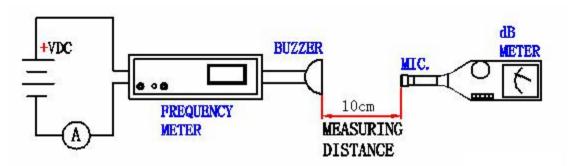
#### **3.TESTING METHOD**

#### **Standard Measurement conditions**

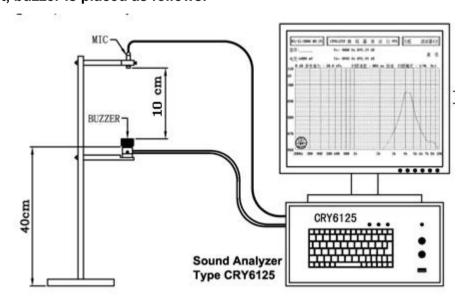
Temperature:25±2°C Humidity:45-65%

#### **Acoustic Characteristics:**

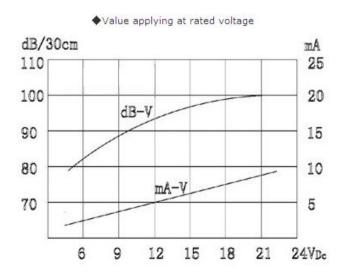
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:



#### **4.FREQUENCY CURVE**



#### **5.RELIABILITY TEST**



NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	Lligh Toppoparature	After being placed in a chamber with 70 2°C for 96 hours and then
	High Temperature Test (Storage)	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:  +60°C  +25°C  +25°C  +25°C  Allowable variation of SPL after test: +/-10dB.
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,3 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.
T COND	ITION	

#### **TEST CONDITION.**

 Standard Test Condition 一般测试条件
 : a) Temperature: +5 ~ +35℃
 b) Humidity: 45-85%
 c) Pressure: 860-1060mbar

 Judgment Test Condition 争议时测试条件
 : a) 温度: +5 ~ +35℃
 b) 湿度: 45-85%
 c) 气压: 860-1060mbar

 b) Humidity: 60-70%
 c) Pressure: 860-1060mbar

 b) 湿度: 60-70%
 c) 气压: 860-1060mbar



#### **6. PACKING STANDARD**

