

PRODUCT SPECIFICATION

Product Name:		Piezo Buzzer
Dart	Number:	MSPS23A35P15V12
ган	Number.	WOF 323A33F 13V 12
Docun	nent No:	
Date:		2021.05.22

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

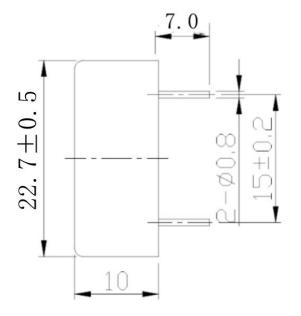


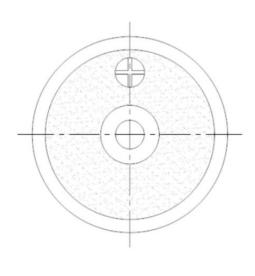
1.SPECIFICATION

TYPE	MSPS23A35P15V12
Sound pressure Level	90dB Min/10cm
Rated Voltage VDC	12V
Resonant Frequency	3.5±0.5kHz
Current at rated Voltage	15.0mA Max.
◆Operating Voltage	3-20 Vdc
Operation Temperature	-20°C - +70°C
Storage Temperature	-30°C - +80°C
Tone Nature	Single
Weight	4
House material	MPPO

♦ VALUE APPLYING RATED VOLTAGE (3500Hz 1/2 DUTY SQUARE WAVE) ∆VALUE APPLYING (3500Hz SINE WAVE MEASURING CURRENT 60µA)

2.APPEARANCE DRAWING





(UNIT:MM) Tolerance: ±0.5mm



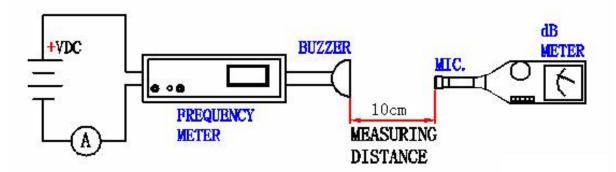
3.TESTING METHOD

Standard Measurement conditions

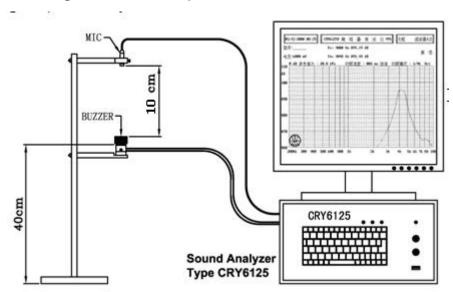
Temperature:25±2°C Humidity:45-65%

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.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.	
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.	
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.	
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of: +70°C +25°C -30°C +25°C -30°C 3hours	
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,3 times,at the height of 75cm .	
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 .	



7		Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then
	7		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.	

Remark: Allowable variation of SPL after test: +/-10dB.

TEST CONDITION.

Standard Test Condition: a) Temperature : $+5 \sim +35^{\circ}$ C 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

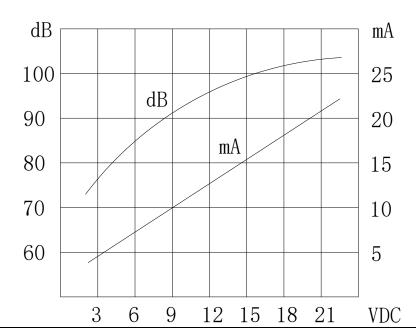
Judgment Test Condition: a) Temperature : +25 ± 2°C b) Humidity : 60-70%

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

5.FREQUENCY CURVE





6. PACKING STANDARD



