Round Piezo Buzzer

Ø13.8x7.5 mm

With pins

CC138P075P-4000

Revision

Date	Version	Status	Changes	Approver
2017/12/15	V0.1	Draft	First release	LC
2017/12/27	V0.2	Draft	Added packing information	LC

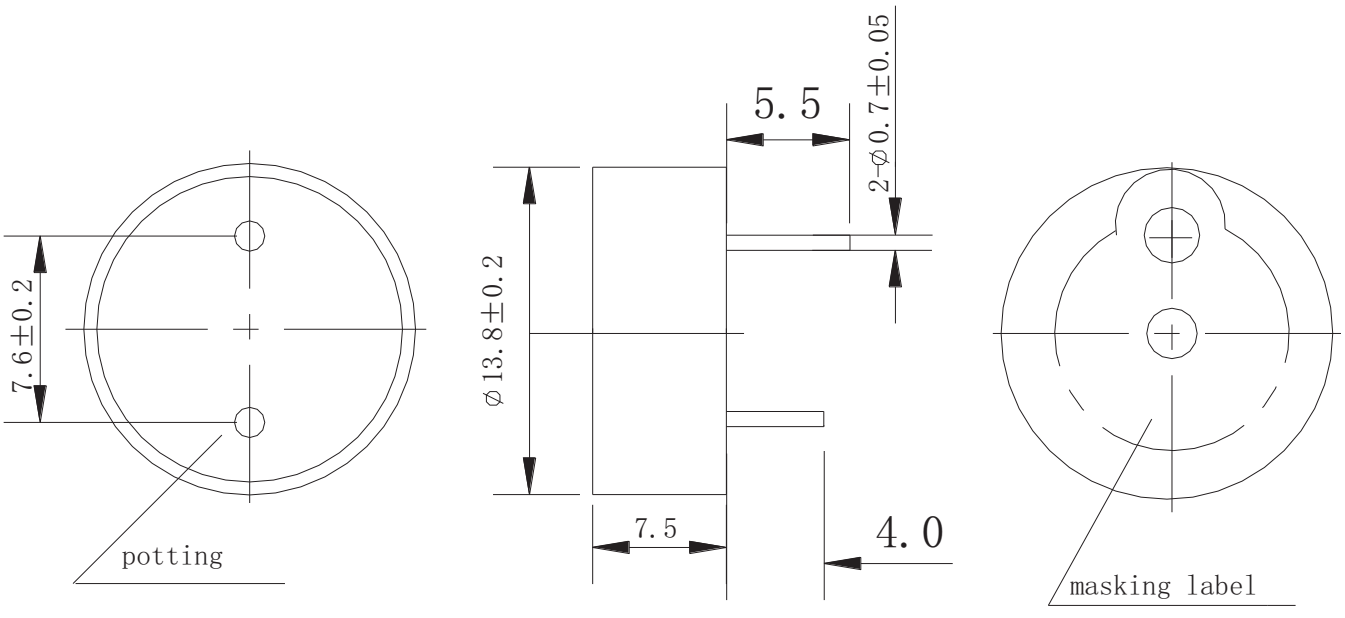
A. Scope

This specification applies Piezo buzzer

B. Specification

1	Oscillation Frequency	**KHz**	**4.0** ±0.5	
2	Operating Voltage	VDC	6 ~ 16	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 8	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Tone Nature		Constant	
7	Operating Temperature	℃	-20~ +70	
8	Storage Temperature	℃	-30 ~ +80	
9	Dimension	mm		See appearance drawing
10	Weight (MAX)	gram		
11	Housing Material		PPO(Black)	
12	Leading Pin			See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. Appearance drawing



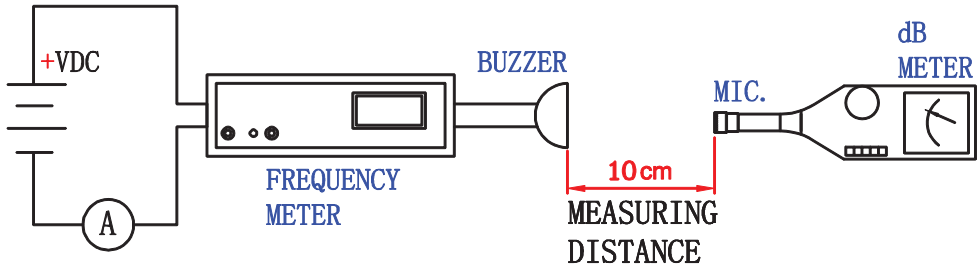
D.Testing method

Standard Measurement conditions

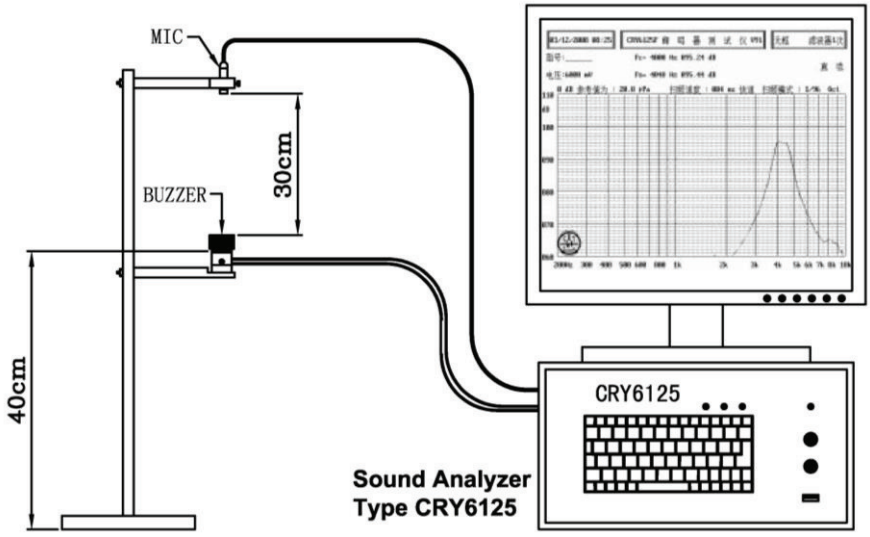
Temperature:25±2℃ Humidity:45-65%

Acoustic Characteristics

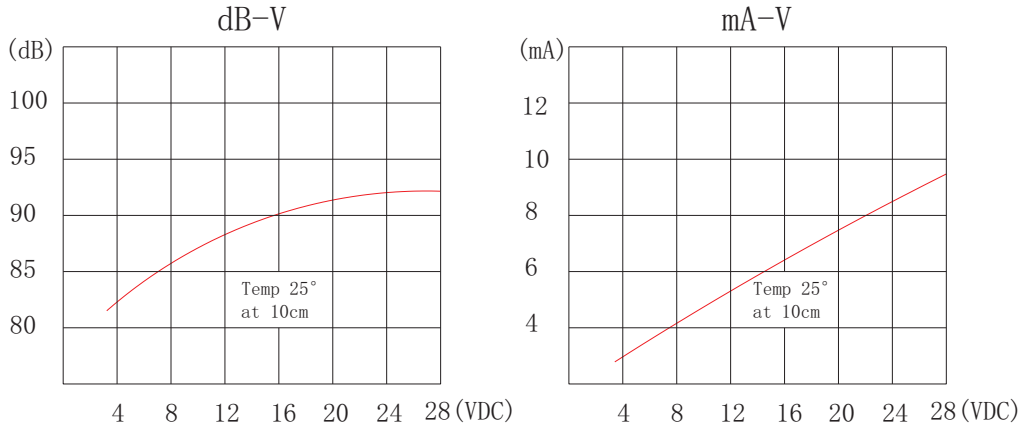
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



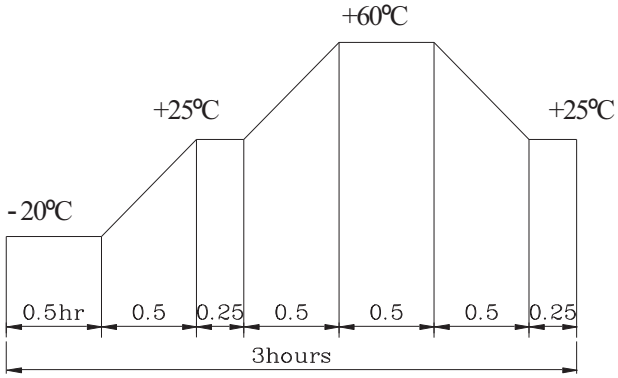
In the measuring test, buzzer is placed as follows:



E. Voltage / current / sound pressure characteristics



F. Reliability test

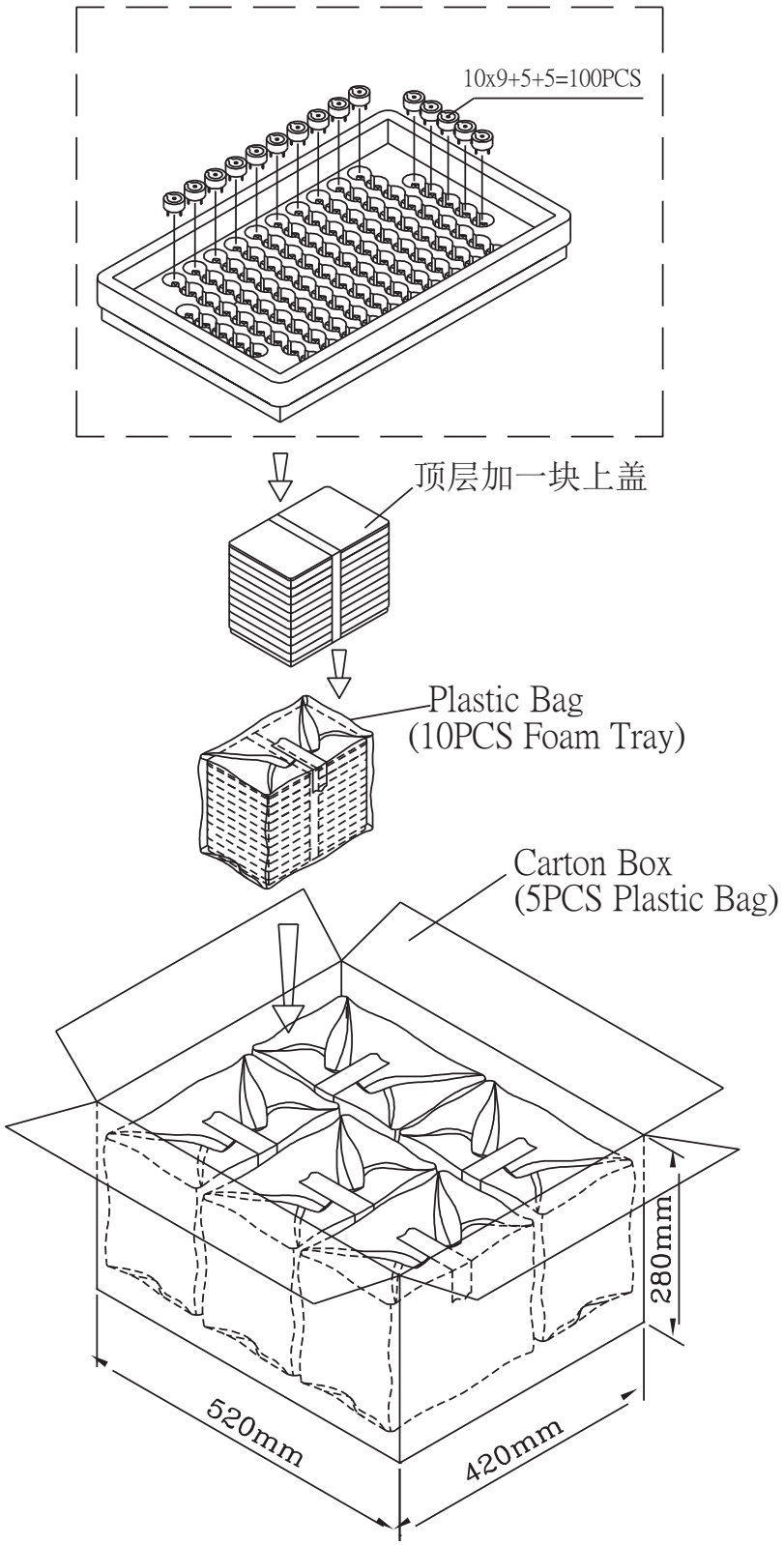
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80±2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30±2ºC 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±2ºC 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：  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±5ºC 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℃ b) Humidity : 45-85% c) Pressure : 860-1060mbar

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

G. Packing standard



Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS