SPECIFICATION FOR APPROVAL 承 认 书

Description :	Piezo Buzzer
Vender's Part No. :	PMB250A
Customer's. Part No.:	
Serial No. :	
Version No. :	

CUSTOMER'S APPROVED SIGNATURE				



서울시 구로구 경인로**53**가길 **10** 대명벨리온 **904**호 TEL : (02)2619-0388 FAX : (02)2619-0346 HOME PAGE : <u>http://www.pmbe.co.kr</u> E-MAIL :pmbe@pmbe.co.kr

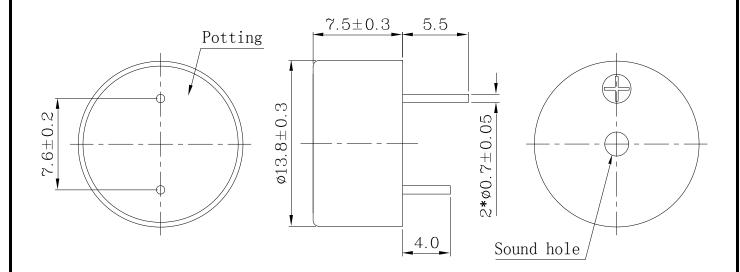
A. SCOPE

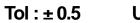
This specification applies piezo buzzer, PMB250A

B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	KHz	4.3±0.5	
2	Operating Voltage	VDC	3~16	
3	Rated Voltage	VDC	12	
4	Current Consumption	mA	MAX. 10	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Tone Nature		Single	
7	Operating Temperature	°C	-20~ +70	
8	Storage Temperature	°C	-30 ~ +80	
9	Dimension	mm	Ф13.8 x H7.5	See appearance drawing
10	Weight (MAX)	gram	2.0	
11	Housing Material		PPO(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

C. APPEARANCE DRAWING





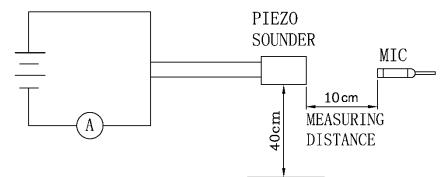
Unit: mm

D.TESTING METHOD Standard Measurement conditions

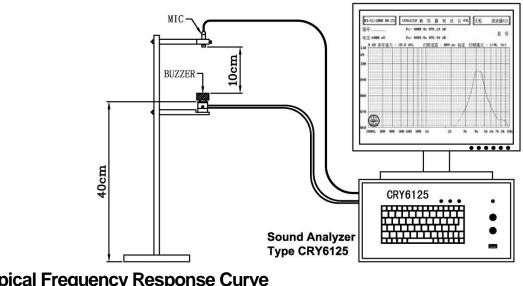
Temperature:25±2°C Humidity:45-65%

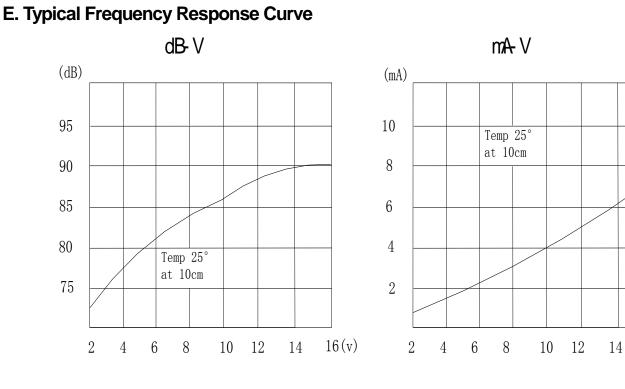
Acoustic Characteristics:

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:





16(v)

F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature	After being placed in a chamber with $80\square 2^{\circ}C$ for 96 hours and then being placed in normal condition for 2 hours.
	Test (Storage)	Allowable variation of SPL after test: 10dB.
	Low Tommonotimo	After being Placed in a chamber with -302°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.
		After being Placed in a chamber with 90-95% R.H. at 4022°C for 96
3	Humidity Test	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 :
		.7000
		+70°C
4		
		+25°C +25°C
	Temperature Cycle	
4	Test	- 20°C
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.25
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
		Allowable variation of SPL after test: 10dB.
		Drop on a hard wood board of 4cm thick, any directions ,6 times,
5	Drop Test	at the height of 75cm.
_		Allowable variation of SPL after test: 10dB.
		After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz
<i>c</i>	Vibration Test	band of vibration frequency to each of 3 perpendicular directions for
6		2 hours.
		Allowable variation of SPL after test: 10dB.
		Lead terminals are immersed in rosin for 5 seconds and then
7	Solderability Test	immersed in solder bath of $+300\Box 5^{\circ}$ for $3\Box 1$ seconds.
/		90% min. lead terminals shall be wet with solder
		(Except the edge of terminals).
	Terminal Strongth	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for
8	Terminal Strength Pulling Test	10 seconds.
	i uning iest	No visible damage and cutting off.

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

