# SPECIFICATION FOR APPROVAL 承 认 书

Description :	Magnetic Buzzer
Vender's Part No. :	PMB1612
Customer's. Part No.:	
Serial No. :	
DATE : :	

# PMB 피엠비일렉텍 상표등록 (제40-0729433호) PMB ELECTECH

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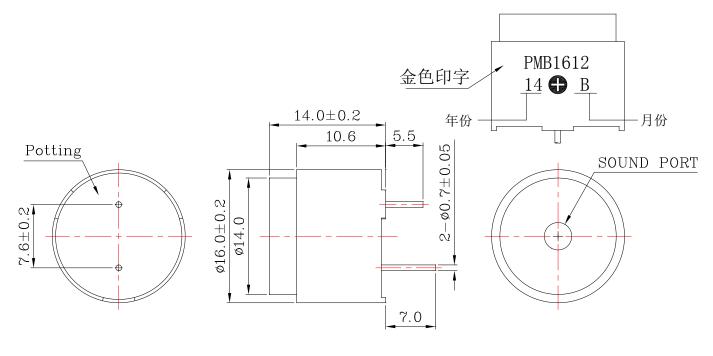
# A. SCOPE

This specification applies magnetic buzzer,  $\ensuremath{\textbf{PMB1612}}$ 

#### **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition
1	Oscillation Frequency	Hz	2000	Vo-p=1/2duty , square wave
2	Operating Voltage	Vo-p	8~16	
3	Rated Voltage	Vo-p	12	
4	Current Consumption	mA	MAX.40	at Rated Voltage
5	Sound Pressure Level	dB	MIN. 85	at 10cm at Rated Voltage
6	Coil Resistance	Ω	115±15	
7	Operating Temperature	°C	-40 ~ +85	
8	Storage Temperature	°C	-40 ~ +85	
9	Dimension	mm	16.0 x H14.0	See appearance drawing
10	Weight (MAX)	gram	7.0	
11	Housing Material		PPO(Black)	
12	Leading Pin		Tin Plated Brass(Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	

# C. APPEARANCE DRAWING



Tol : ± 0.5

Unit: mm

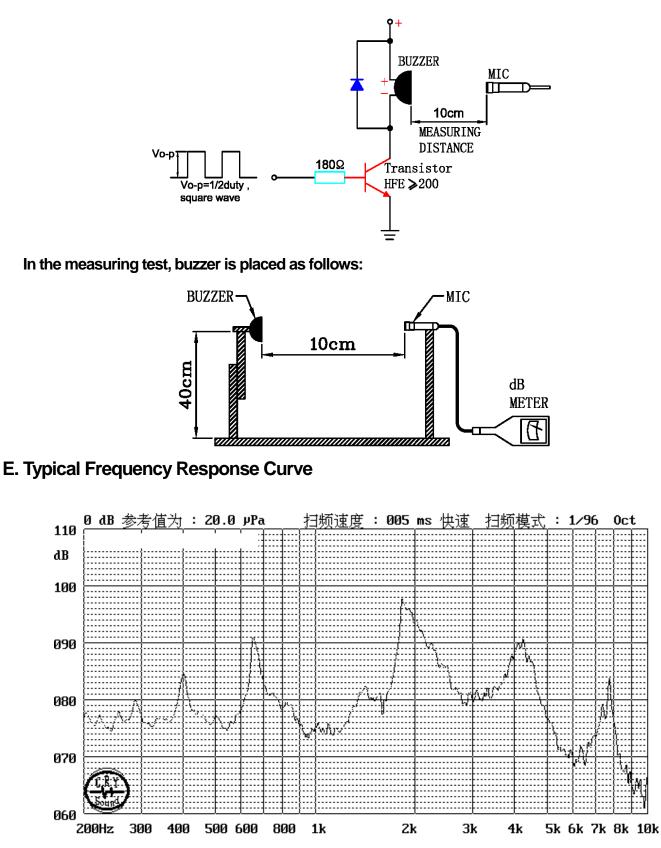
### D.TESTING METHOD

#### 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(Recommend Driving Circuit)



# F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT	
1	High Temperature	After being placed in a chamber with 85 <sup>12</sup> °C for 96 hours and then being placed in normal condition for 2 hours.	
	Test (Storage)	Allowable variation of SPL after test: 10dB.	
	L any Tanan anatana	After being Placed in a chamber with -40 2°C for 96 hours and then	
2	Low Temperature	being placed in normal condition for 2 hours.	
	Test (Storage)	Allowable variation of SPL after test: 10dB.	
	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 402°C for 96	
3		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 :	
		0.700	
		+85°C	
		+25°C +25°C	
4	Temperature Cycle Test		
4		-40°C	
		0.5hr 0.5 0.25 0.5 0.5 0.5 0.25	
		3hours	
		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 1.5mm with 10 to 55 Hz	
6	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 5°C for 3 1 seconds.	
/		90% min. lead terminals shall be wet with solder	
		(Except the edge of terminals).	
	Terminal Strength	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for	
8	Pulling Test	10 seconds.	
	i unité i cot	No visible damage and cutting off.	

Standard Test Condition	:	a) Temperature : +5 ~ +35℃	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℃	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)

