

# SPECIFICATION FOR APPROVAL

## 承 认 书

Description : \_\_\_\_\_  
Vender's Part No. : **PMB235LHY-12V**  
Customer's. Part No. : \_\_\_\_\_  
Serial No. : \_\_\_\_\_  
Version No. : **1.1**

CUSTOMER'S APPROVED SIGNATURE		

**PMB** 피 엠 비 일 렉 텍  
상표등록 <제40-0729433호> **PMB ELECTECH**

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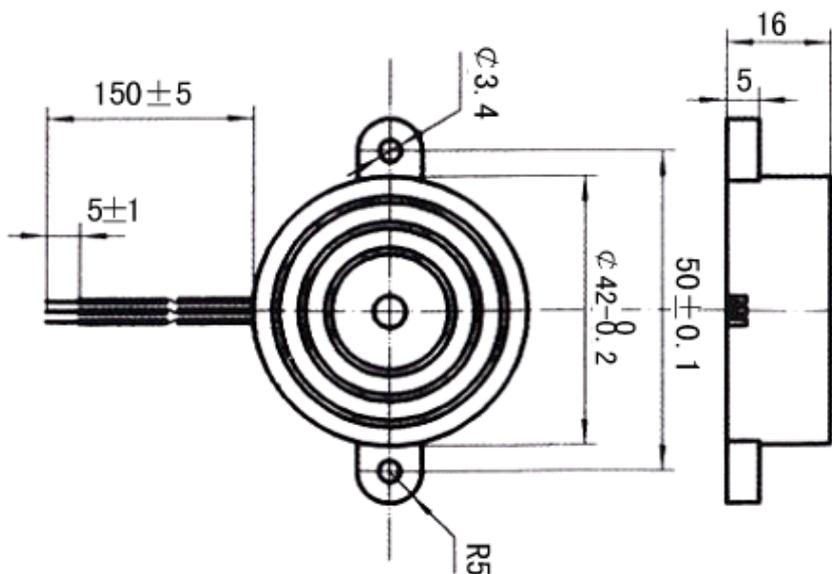
## A. SCOPE

This specification applies magnetic buzzer, **PMB235LHY-12V**

## B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Voltage	Vdc	3-24	
2	Rated Voltage	Vdc	12	
3	Current Consumption	mA	MAX. 15	at Rated Voltage
4	MIN.Sound Pressure Level	dB	85	at 30cm at Rated Voltage
5	Resonant Frequency	Hz	2800±500	
6	Tone		pulse	
7	Operating Temperature	°C	-20~ +60	
8	Storage Temperature	°C	-30 ~ +70	
9	Dimension	mm	Φ42x H16	See appearance drawing
10	Environmental Protection Regulation		RoHS	
11	Housing Material		ABS	
12	Weight	g	10	

## C. APPEARANCE DRAWING



**Tol : ± 0.5**

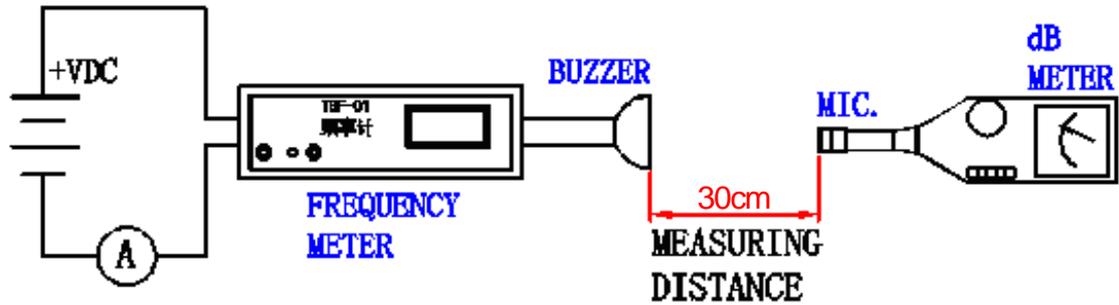
**Unit: mm**

## D. TESTING METHOD

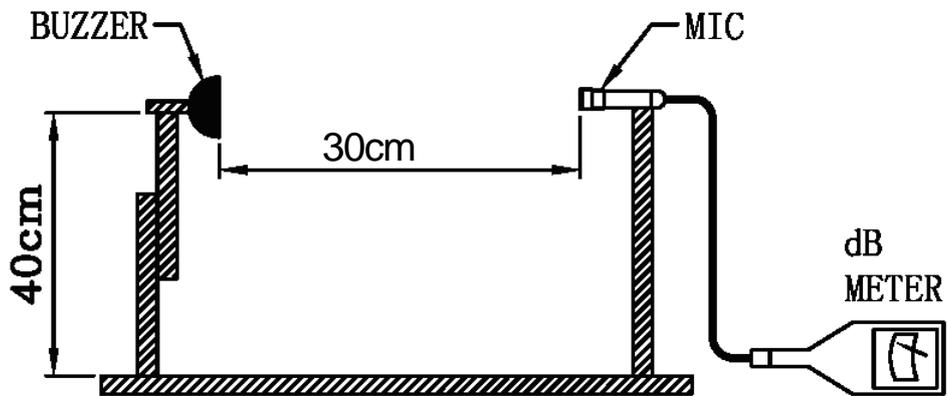
### Standard Measurement conditions

Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

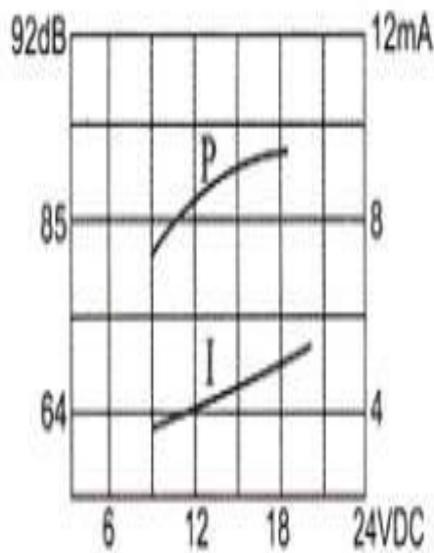
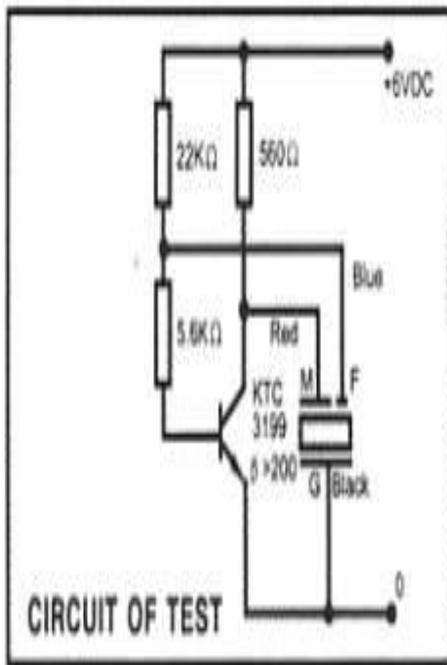
### Recommended Setting



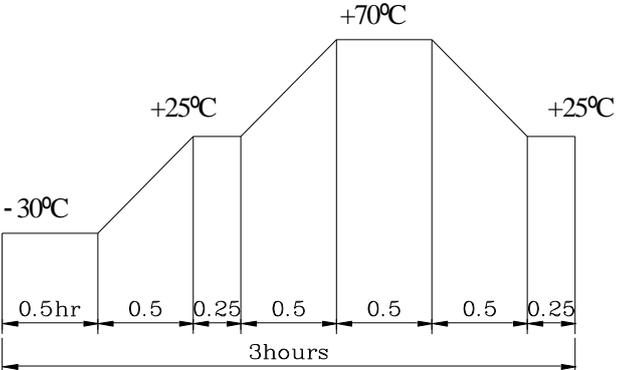
### Recommended Test Circuit



## E. Typical Frequency Response Curve



## F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 70 ± 2°C 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 ± 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 :  <p>The diagram shows a temperature cycle profile over a 3-hour period. It starts at -30°C for 0.5 hours, then ramps up to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, ramps up to +70°C in 0.5 hours, holds at +70°C for 0.5 hours, ramps down to +25°C in 0.5 hours, holds at +25°C for 0.25 hours, and finally ramps down to -30°C in 0.5 hours. The total cycle time is 3 hours.</p> 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 ± 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.

### TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35°C	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : +5 ~ +35°C	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°C	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar