RoHS

音 賜 股 份 有 限 公 司

Ariose Electronics Co., Ltd.

SPECIFICATION FOR MAGNETIC BUZZER

Item No.: LF-MB09B05

Issue Date	Issued By
NOV. 28, 2005	*Martin Lu*

2F.-6, No. 40-2, Sec. 1, Minsheng N. Rd., Gueishan, Taoyuan, Taiwan
TEL: 886-3-355-0536 FAX: 886-3-355-4855
E-mail:ario@ms10.hinet.net
Http://www.ario.com.tw

Specification of Magnetic Buzzer

1. Scope

   This specification is applied to the magnetic buzzer which are used for alarm systems.

2. Item No.: LF-MB09B05

3. Ratings

● Rated Voltage	:	5.0 VDC
● Operating Voltage	:	3.0 ~ 8.0 VDC
● Current Consumption	:	30 mA max. Applying rated voltage.
● Sound Pressure Level	:	85dB min. Applying rated voltage at 10cm.
● Resonant Frequency	:	2,700 ± 300 Hz
● Operating Temperature	:	- 20℃ ~ + 70 ℃
● Storage Temperature	:	- 30℃ ~ + 80 ℃
● Case material	:	NORYL

4. Outline Drawing and Dimensions

   * Appearance: No visible damage and dirt
   * Dimensions: as per Fig. 1

5 Electrical Requirements should be specified at room temperature and humidity.
(Ref. Temperature: 25 ± 3℃, Humidity: 60 ± 10% RH)

6. Physical Characteristics

	Test Items	Test Conditions	Performance Requirements
6-1.	Vibration	Transducer shall be measured after being applied vibration of amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each three mutually perpendicular directions for 2 hours.	The measured values meet Table 1.
6-2.	Drop Test	The buzzer is placed in a normal box, drops testing by 5 times from 70cm height free falling onto concrete floor.	The measured values meet Table 1.

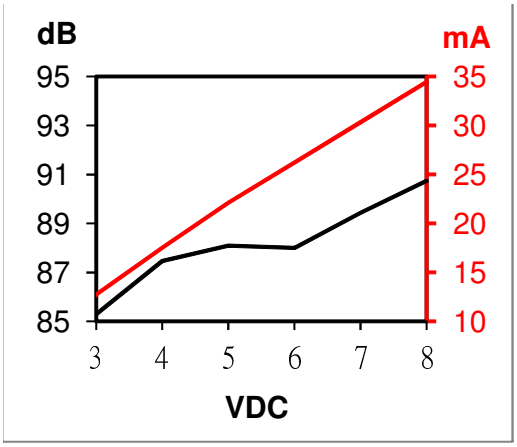
7. Environmental Characteristics

	Test Items	Test Conditions	Performance Requirements
7-1.	High Temperature	After being placed in a chamber with +80 ±3°C for 4 hours and then being placed in natural condition for 4 hours without applying power, transducer shall be measured.	The measured values shall meet Table 1.
7-2.	Low Temperature	After being placed in a chamber with -30 ± 3°C for 4 hours and then being placed in natural condition for 4 hours without applying power, transducer shall be measured.	
7-3.	Humidity	After being placed in a chamber with 90 ~ 95% R.H. at + 40 ± 3°C for 24 hours and then being placed in natural condition for 4 hours without applying power, transducer shall be measured.	
7-4.	Temperature Cycle	Be placed in a chamber at -20℃ ⟶ +20℃ ⟶ +70℃ ⟶ +20℃ 30min. 15min. 30min. 15min. × 5cycles After above test, transducer shall be measured after being placed in natural condition for 4 hours ; without applying power.	

Table 1.

Items	Performance Requirements
Sound Pressure Level	Original Level ± 10 %
Current Consumption	Original Value ± 15 %

8. Sound Pressure Level and Current Consumption VS DC Voltage



9. Remark:

因環保規範、材料取得、製程精進等因素，在規格特性未變更下，本公司得就材料逕行調整，毋須通知客戶。

At the same spec of material changed without notice, due to the environmental protection, material sources and process improvement norms etc.

Dimensions Unit: mm ± 0.5

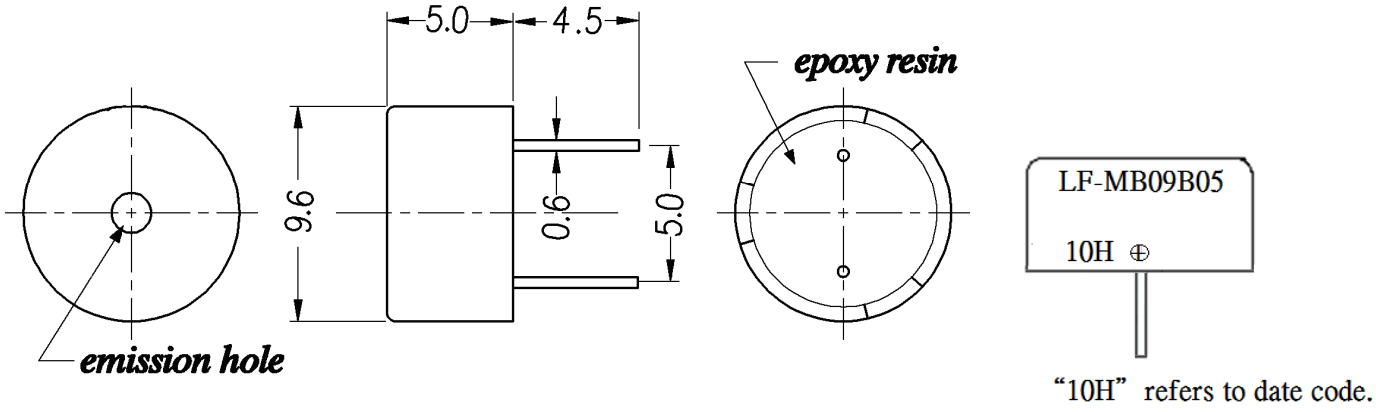


Fig. 1

Test Circuit

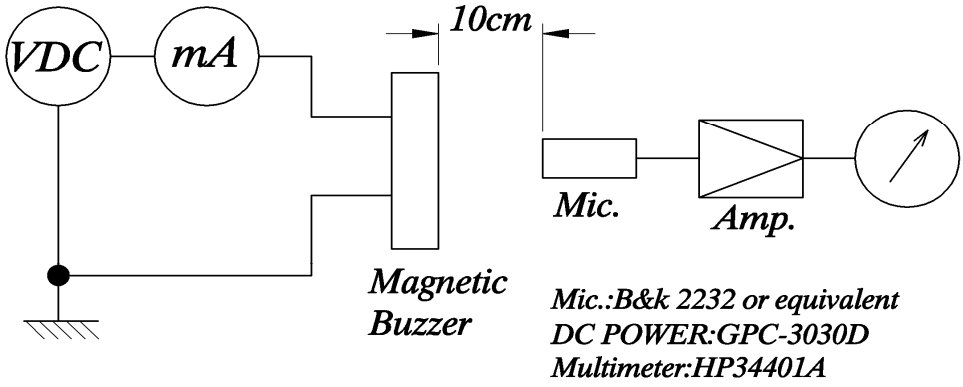


Fig. 2