RoHS

音 賜 股 份 有 限 公 司

Ariose Electronics Co., Ltd.

SPECIFICATION FOR MAGNETIC TRANSDUCER

Item No.: LF-MT08SB36

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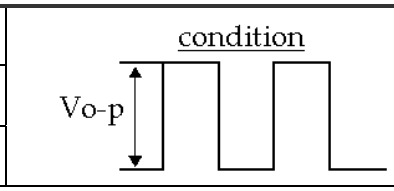
Specification of Magnetic Transducer

1. Scope
   This specification is applied to the magnetic transducer, which are used for alarm systems.

2. Item No.: LF-MT08SB36

3. Ratings

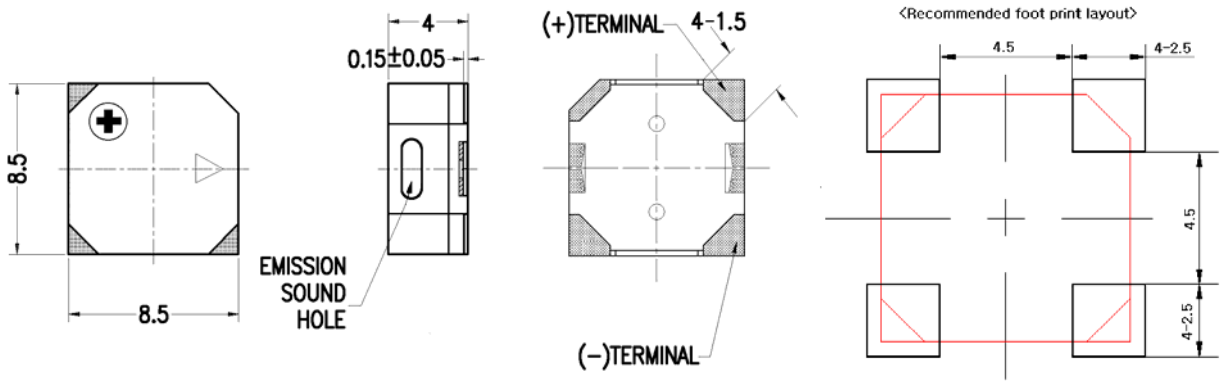
3.1	Rated Voltage	3.6 Vo-p	
3.2	Operating Voltage	2.5 ~ 4.0 Vo-p	
3.3	Current Consumption	100 mA max.	
3.4	Coil Resistance	16 ± 2 ohm	
3.5	Sound Pressure Level	85dB min. (10cm) * Frequency=2,700Hz, Vo-p=3.6V, 1/2 duty square wave.	
3.6	Resonant Frequency	2,700 Hz	
3.7	Operating Temperature	- 40°C ~ + 85 °C	
3.8	Storage Temperature	- 40°C ~ + 85 °C	
3.9	Case Material	LCP	

4. Reliability

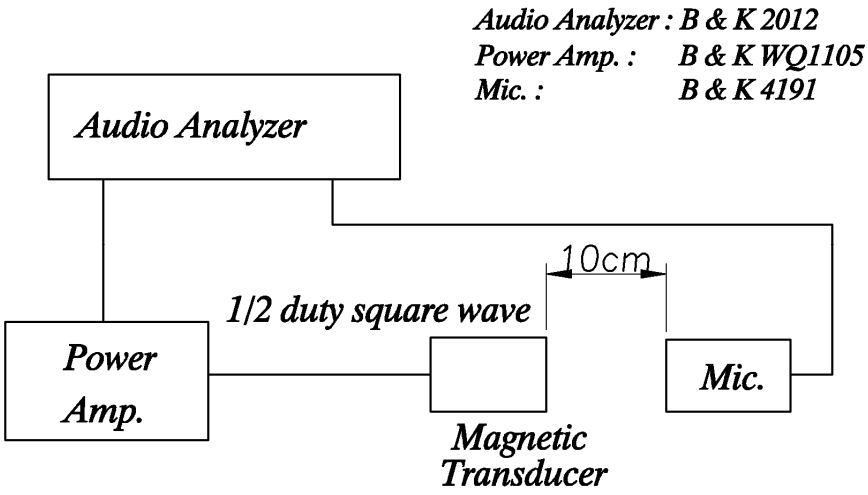
4.1	Vibration	• Transducer shall be measured after being applied vibration of amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each three mutually perpendicular directions for 2 hours.
4.2	Temperature Cycle (Static test)	Be placed in a chamber at -20℃ ⟶ +25℃ ⟶ +60℃ ⟶ +25℃ 30min. 15min. 30min. 15min. × 5cycles After above test, sounder shall be measured after being placed in natural condition for 2 hours ; without applying power.
4.3	High Temperature (Static test)	• After being placed in a chamber with +85 ± 3°C for 48 hours and then being placed in natural condition for 2 hours without applying power, transducer shall be measured.
4.4	Low Temperature (Static test)	• After being placed in a chamber with -40 ± 2°C for 48 hours and then being placed in natural condition for 2 hours without applying power, transducer shall be measured.
4.5	Humidity (Static test)	• After being placed in a chamber with 90 to 95% R.H. at + 40 ± 3°C for 48 hours and then being placed in natural condition for 2 hours without applying power, transducer shall be measured.
4.6	Drop Test	• The buzzer is put in a normal box then drop on a hard wood board of 4cm thick, each direction , total 6 times at the height of 75cm.

All data at 25℃, humidity 40% ~ 80% unless otherwise specified.

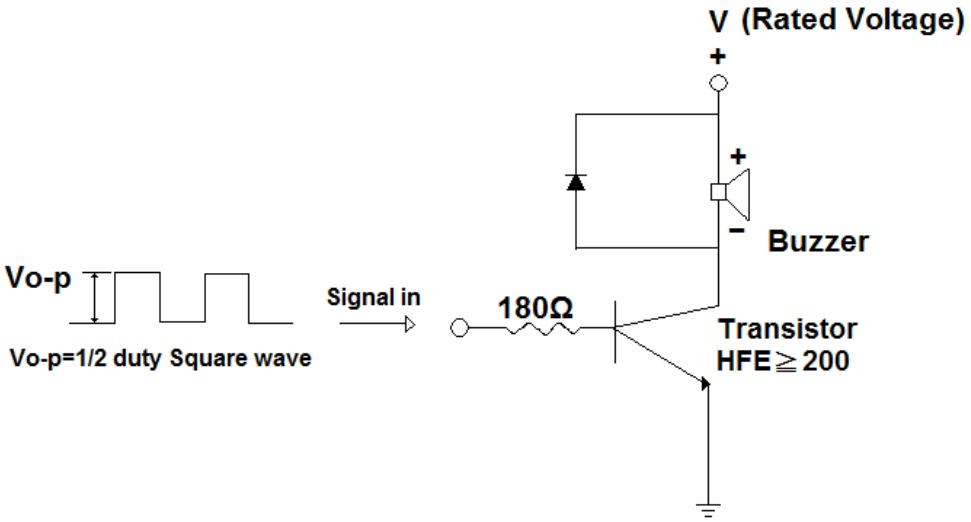
5. Dimensions Unit : mm ±0.5



6. Test circuit



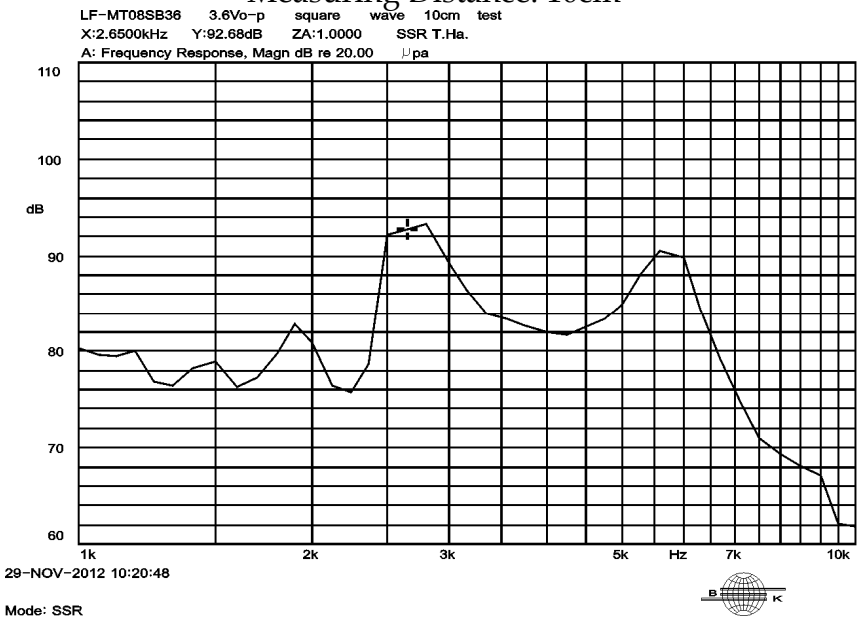
7. Standard driving circuit for transducer



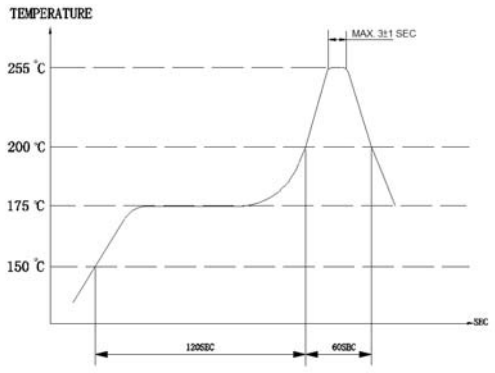
8. FREQUENCY RESPONSE CURVE OF LF-MT08SB36

Input Voltage: 3.6Vo-p Square Wave

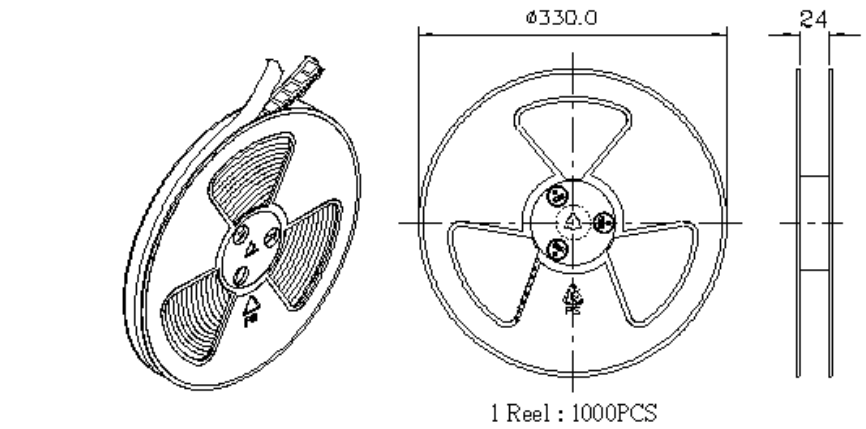
Measuring Distance: 10cm



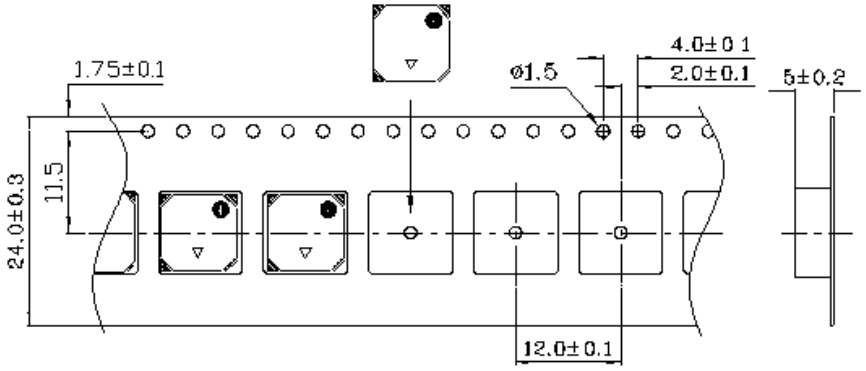
9. Recommended Soldering Condition:

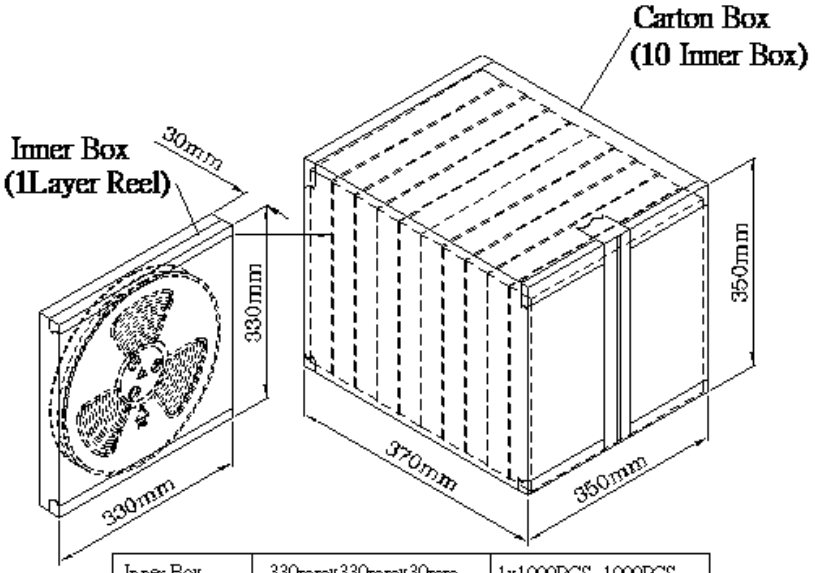
Item.	Soldering condition		Application	Remarks
9.1	IR Reflow Soldering	Frequency: Maximum 2 times. Please mark: Cool down the Buzzer and PCBA to room temperature before re-soldering. Testing: Cool down the buzzer at room temperature for minimum four hours before testing. 	SMD Buzzer	Please do not wash the product.
9.2	Manual soldering	Temperature: 350±10°C, maximum 1.5 seconds Soldering area: minimum 1.5mm from the body.	Buzzer	Duration: Minimum 1 minute between soldering positive and negative electrodes.

10. Packing



1 Reel : 1000PCS





Inner Box	330mmx330mmx30mm	1x1000PCS=1000PCS
Carton Box	350mmx350mmx370mm	10x1000PCS=10,000PCS