



SPECIFICATION FOR MAGNETIC TRANSDUCER

Item No.: LF-MT08SB6

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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-MT08SB6

3. Ratings

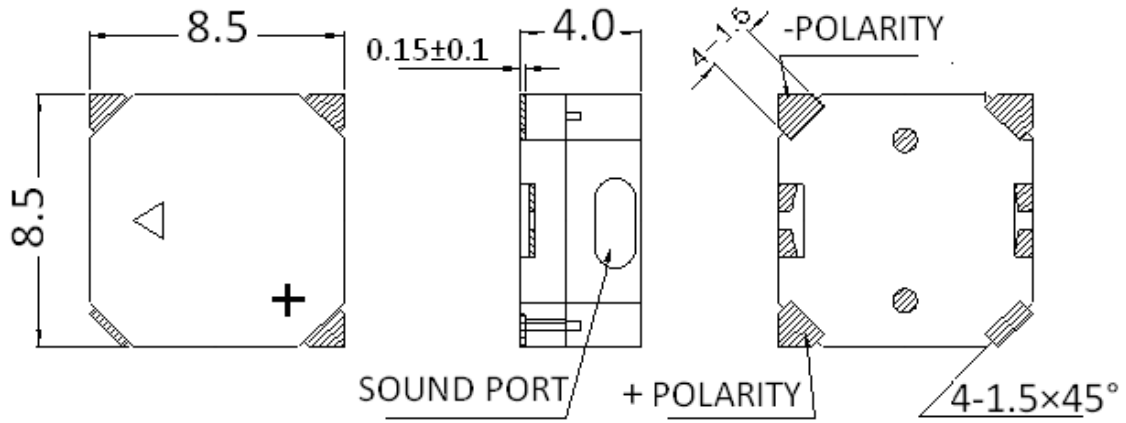
3.1	Rated Voltage	5.0 V _{0-p}	
3.2	Operating Voltage	4.0 ~ 6.0 V _{0-p}	
3.3	Current Consumption	80 mA max.	
3.4	Coil Resistance	30 ± 5 Ω	
3.5	Sound Pressure Level	88dB min. (10cm) *Frequency=2,700Hz, V _{0-p} =5.0V, 1/2 duty square wave.	
3.6	Resonant Frequency	2,700 Hz	
3.7	Operating Temperature	- 20°C ~ + 70 °C	
3.8	Storage Temperature	- 30°C ~ + 80 °C	
3.9	Case Material	LCP	

4. Reliability

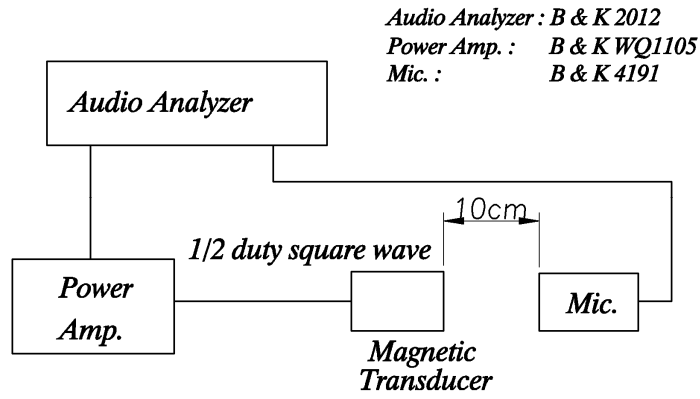
4.1	Vibration	<ul style="list-style-type: none"> Transducer shall be measured after being applied vibration of amplitude of 1.5 mm with 10 to 55 Hz band of vibration frequency to each three mutually perpendicular directions for 2 hours.
4.2	Temperature Characteristics	<p>Be placed in a chamber at -20°C → +25°C → +70°C → +25°C 30min. 15min. 30min. 15min. × 5cycles</p> <ul style="list-style-type: none"> After above test, sounder shall be measured after being placed in natural condition for 4 hours ; without applying power.
4.3	High Temperature	<ul style="list-style-type: none"> After being placed in a chamber with +80 ± 3°C for 48 hours and then being placed in natural condition for 4 hours without applying power, transducer shall be measured.
4.4	Low Temperature	<ul style="list-style-type: none"> After being placed in a chamber with -30 ± 2°C for 48 hours and then being placed in natural condition for 4 hours without applying power, transducer shall be measured.
4.5	Humidity	<ul style="list-style-type: none"> 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 4 hours without applying power, transducer shall be measured.
4.6	Drop Test	<ul style="list-style-type: none"> 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°C, humidity 40% ~ 80% unless otherwise specified.

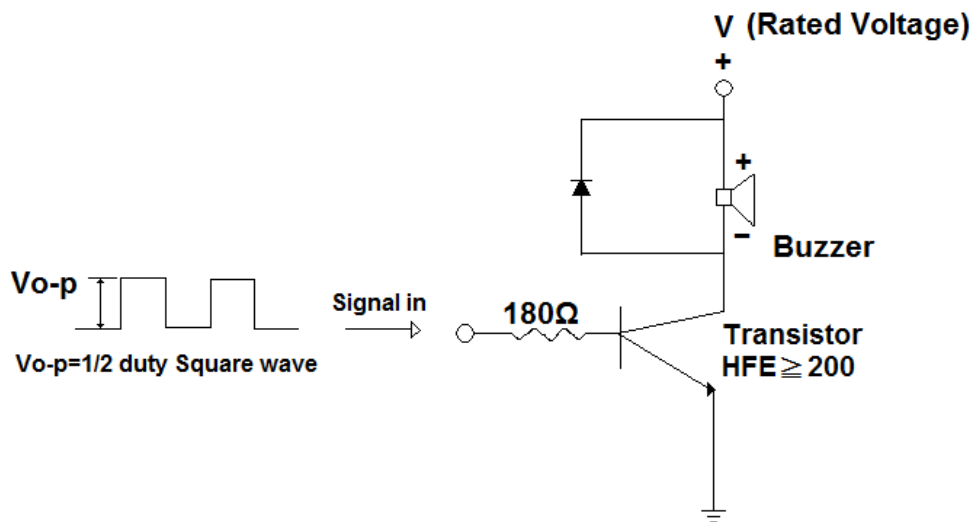
5. Dimensions Unit : mm \pm 0.5



6. Test circuit



7. Standard driving circuit for transducer



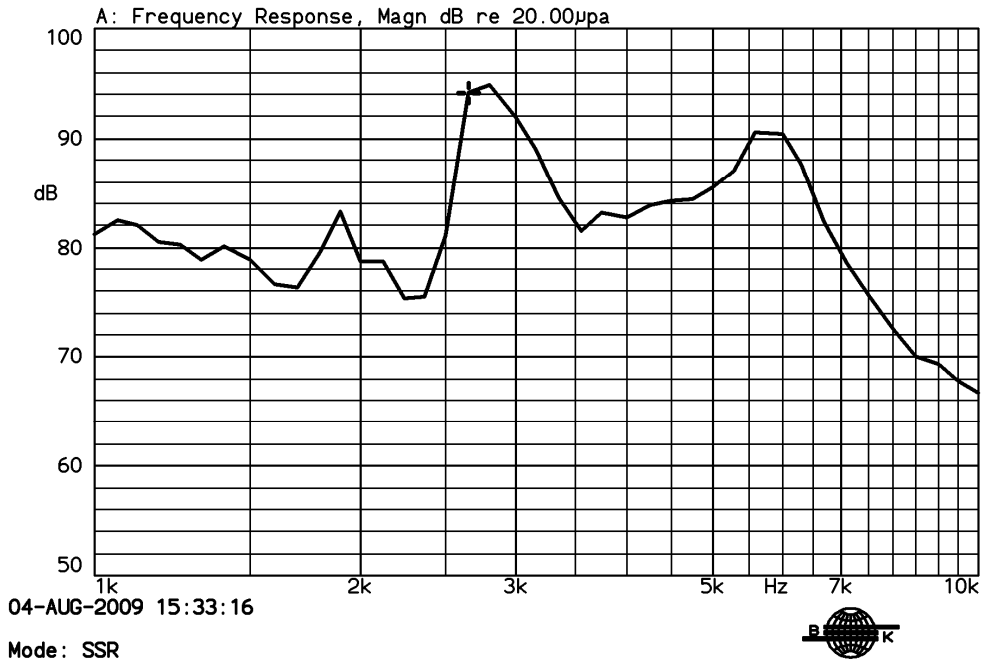
8.

FREQUENCY RESPONSE CURVE OF LF-MT08SB6

Input Voltage: 5.0Vo-p Square Wave

Measuring Distance: 10cm

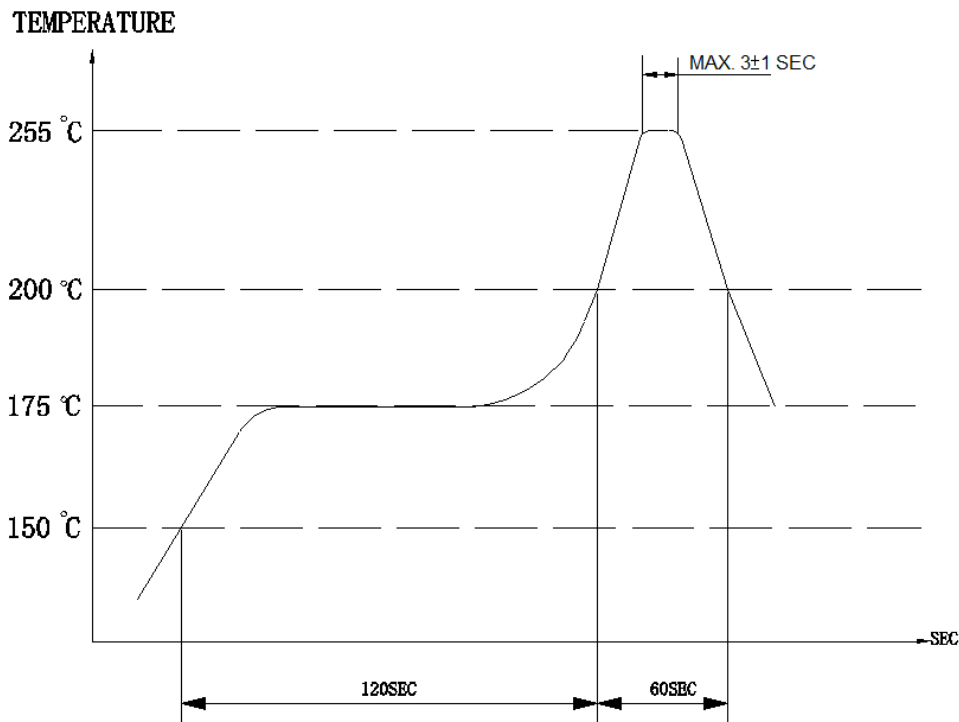
LF-MT08SB6 5.0Vo-p square wave 10cm test
 X: 2.6500kHz *Y: 94.14dB ZA: 3.0000 SSR T.Ha.



9. Soldering Condition

9-1. Recommendable reflow soldering condition is as follows

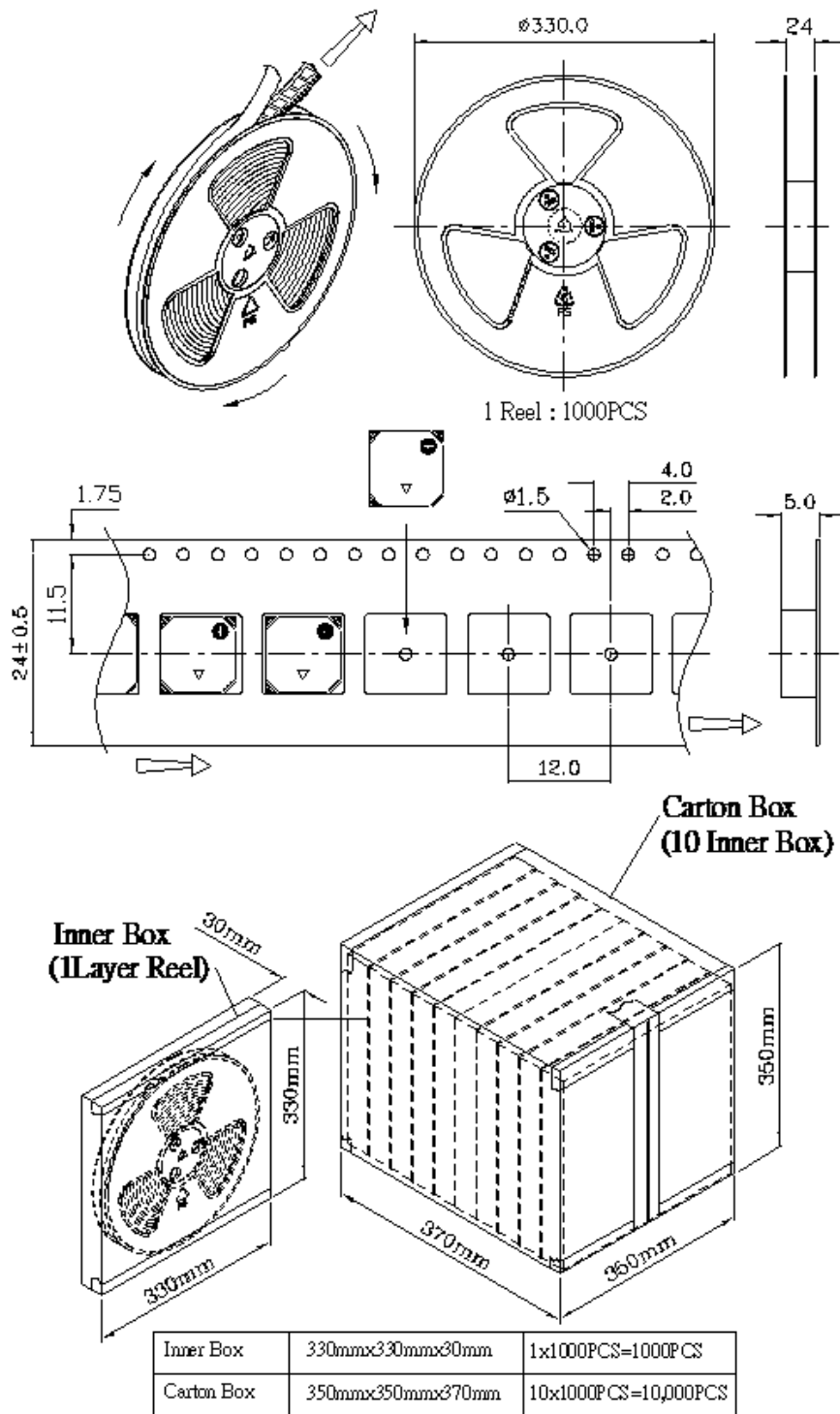
Note: It is requested that reflow soldering should be executed after heat of product goes down to normal:



9-2. Manual soldering:

The temperature of soldering iron: $320 \pm 10^\circ\text{C}$ within 2sec. max.

10. Packing



11. 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.