


Specification of Magnetic Transducer

1. Scope

This specification is applied to the magnetic transducer, which are used for alarm systems, communication devices, such as: pager, cordless phone, cellular phone, modem and GPS etc.

2. Item No.: LF-MT08SB36

3. Ratings

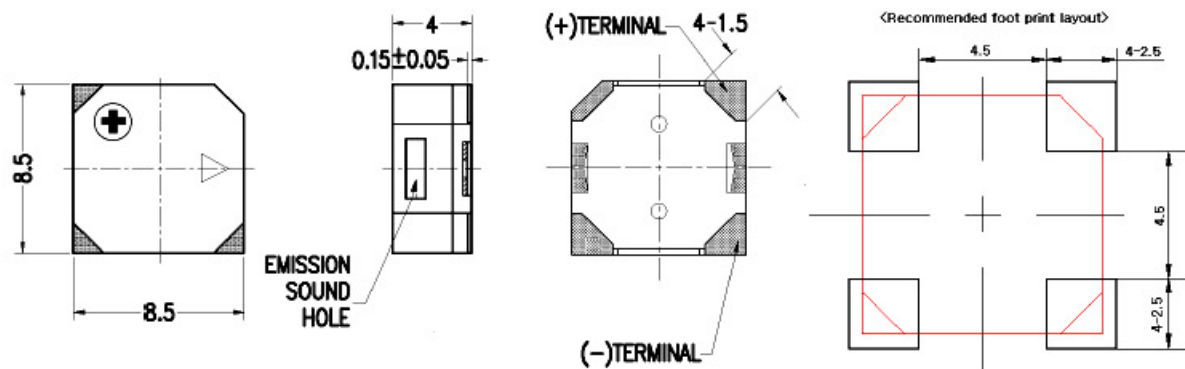
3.1	Rated Voltage	3.6 Vo-p	<div><div>condition</div><div></div></div>
3.2	Operating Voltage	2.5 ~ 4.0 Vo-p	
3.3	Current Consumption	100 mA max.	
3.4	Coil Resistance	16 ± 2 ohm	
3.5	Sound Pressure Level	85dB min. (10cm) * Frequency=2,700Hz, Vo-p=3.6V, 1/2 duty square wave.	
3.6	Resonant Frequency	2,700 Hz	
3.7	Operating Temperature	- 30°C ~ + 70 °C	
3.8	Storage Temperature	- 40°C ~ + 85 °C	
3.9	Case Material	LCP	

4. Reliability

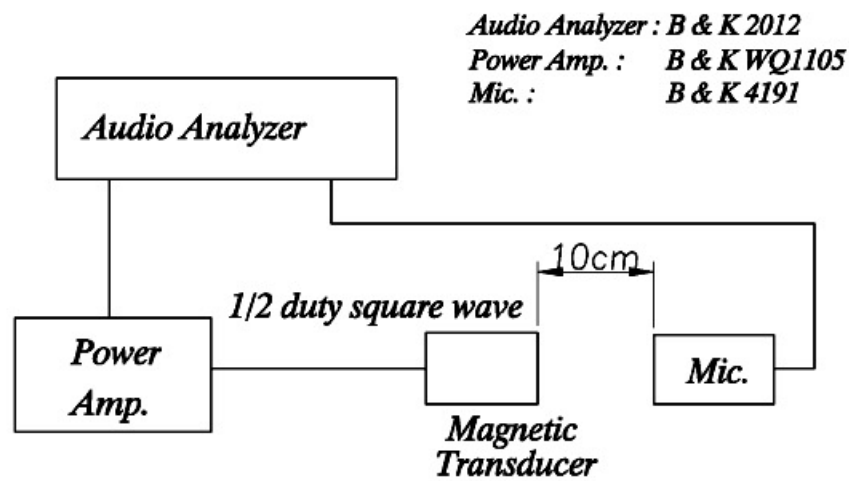
4.1	Temperature Characteristics	<ul style="list-style-type: none"> All data taken at -30°C and +70°C will be referenced to initial data taken at +25°C. Component must be fully stabilized at temperature extremes before data taken, which may require up to a 4 hour soak.
4.2	Static Humidity	<ul style="list-style-type: none"> Precondition at 25°C for 60 minutes. After 72 hours at 40°C with 90% to 95% relative humidity, allow to dry at room ambient for 4 hours.
4.3	Vibration	<ul style="list-style-type: none"> To vibrate randomly at 6g's or 0.04 g/Hz power spectral density from 10 to 2000Hz for 15 minutes per plane or Sinusoidal vibration 10 to 60 Hz, 0.06" double amplitude or 15 g's whichever is less for 1/2 hour per plane X, Y, Z.
4.4	Operation Life	<ul style="list-style-type: none"> To subject samples to 85°C at 85% RH for 168 Hr at full rated power.
4.5	Component Shear Test	<ul style="list-style-type: none"> To subject sample on PC Board to a tensile pull strength of 1Kg force for 30 seconds.
4.6	Drop Test	<ul style="list-style-type: none"> While assembled in a dummy case, the buzzer is placed in a normal box then drop testing 5 times freefalling onto a concrete floor from a height of 150cm.

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

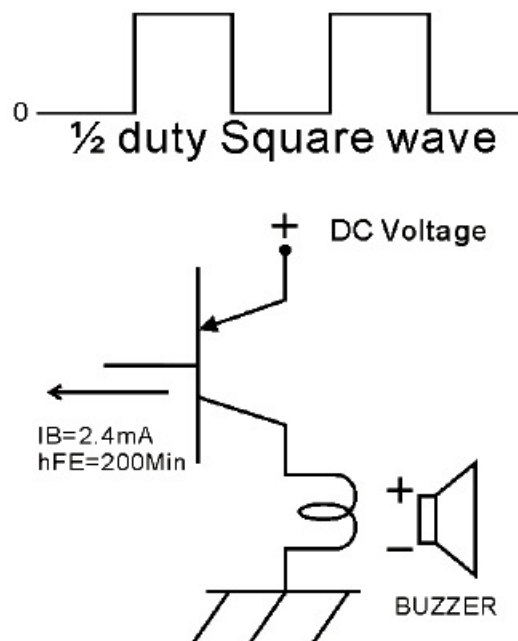
5. Dimensions Unit : mm ± 0.5



6. Test circuit



7. Standard driving circuit for transducer

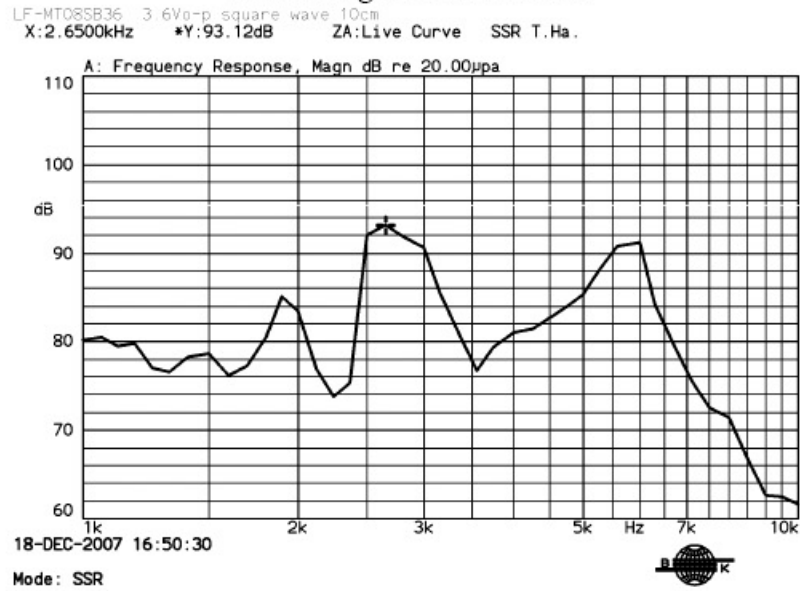


8.

FREQUENCY RESPONSE CURVE OF LF-MT08SB36

Input Voltage: 3.6Vo-p Square Wave

Measuring Distance: 10cm



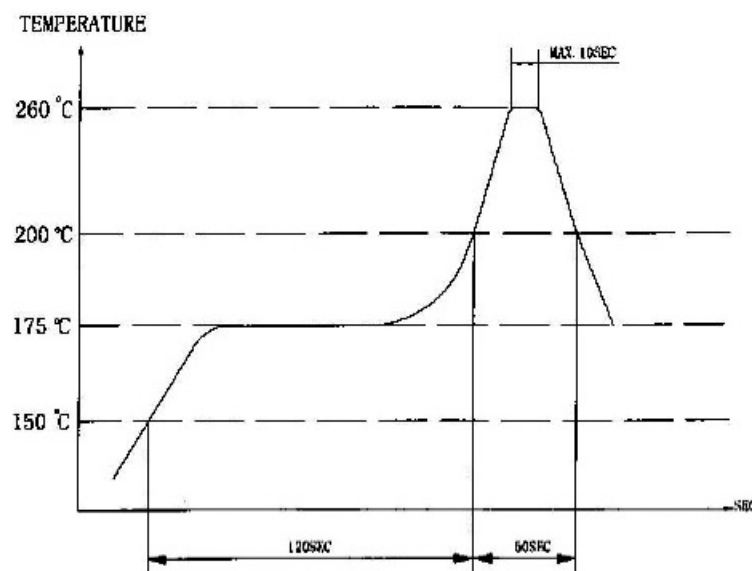
9. Soldering Condition

Reflow soldering: Recommendable reflow soldering condition:

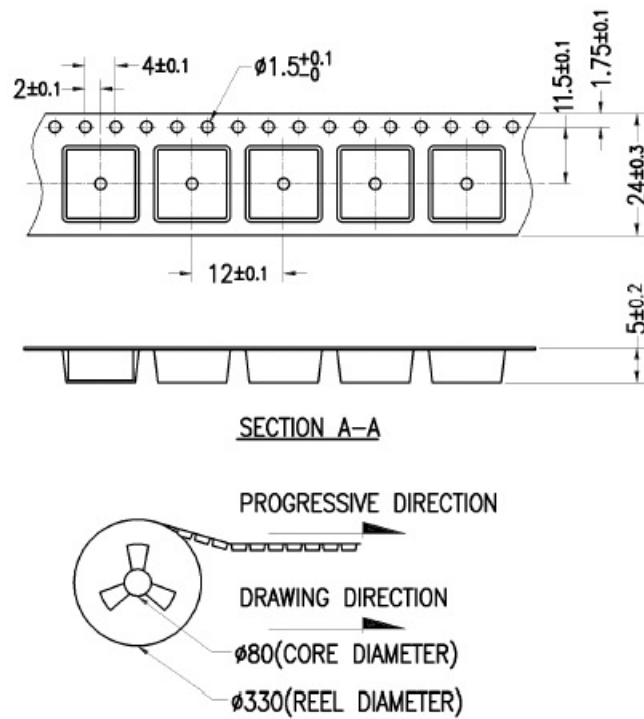
- It is requested that 2nd reflow soldering should be executed after the temperature of product goes down to normal temperature.
- Maximum reflow temperature is 260°C.

Manual soldering

- The temperature of soldering iron: 350°C within 5 seconds.



10. Packing



- Each corner without specification is max R0.25.
- Diameter of reel is $\phi 330$ mm and core is $\phi 80$ mm.
- Quantity packed in a reel: 1,000pcs.

11. Remark

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