DIGISOUND®

F-B-M0403ESB

Electrical and Acoustical Parameter

Rated Voltage (Vo-p) *	3.0
Operating Voltage (Vo-p)	2.0 – 4.0
Coil Resistance (Ω)	17+/-3
Max Operating Current (mA) *	max. 90
Sound Pressure Level (dBA/10cm) *	min. 70
Resonance Frequency (Hz)	4000

Remark: *Applying rated voltage (Resonant frequency, Square wave)

Mechanical, Environmental Parameter

Contact / Wire	Pad
Operating Temperature (°C)	-20 to +70
Storage Temperature (°C)	-30 to +80
Material Housing	LCP
Color Housing	Black
Component Weight (g)	0.1

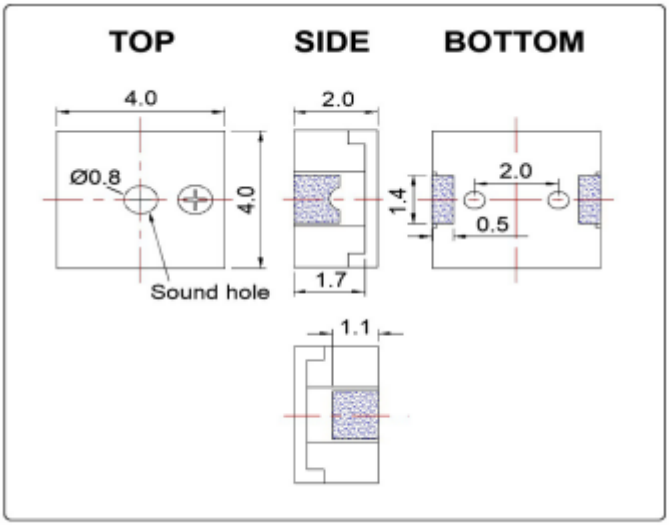
Remark:

Approval

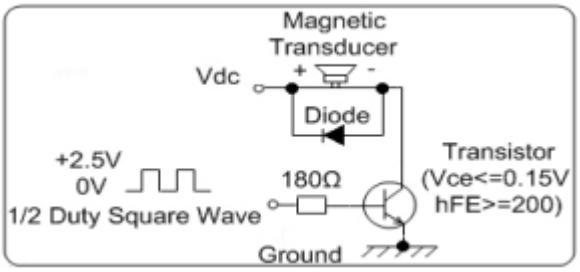
RoHs ☑

UL ☐

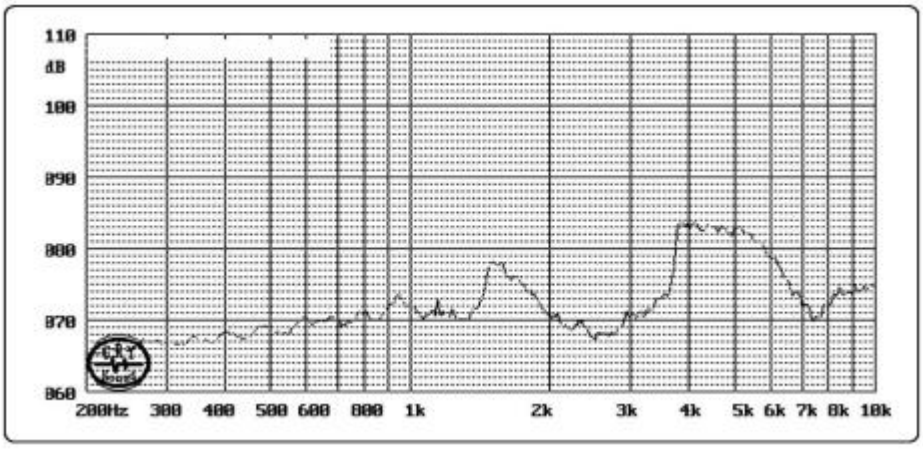
Drawing of Component



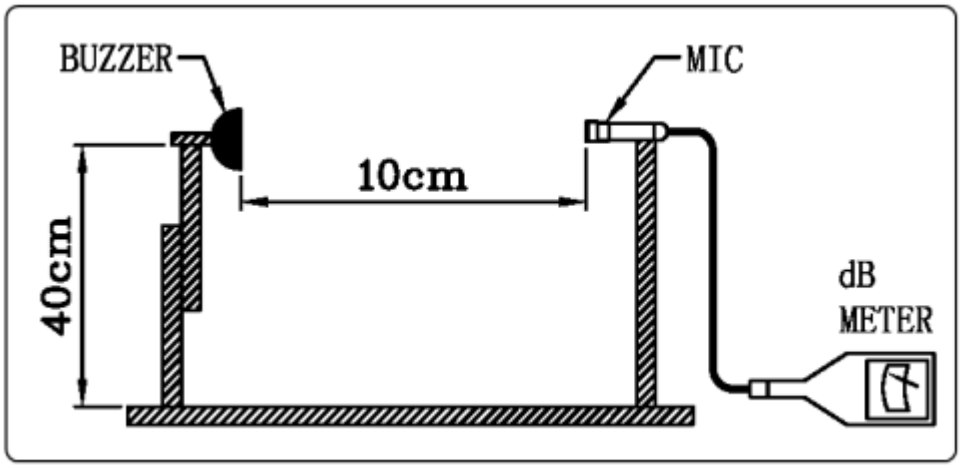
Recommended Circuit



Frequency Response



Measuring Condition



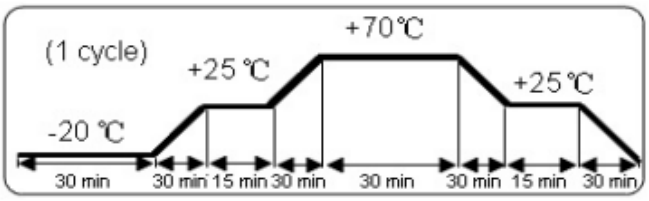
Reliability Test

a) HIGH TEMPERATURE TEST
After exposure at +70 ± 2℃ for 96 hours and room temperature for 2 hours,the value of frequency/current/ SPL should meet specifications shown in page 2.

b) LOW TEMPERATURE TEST
After exposure at -20 ± 2℃ for 96 hours and room temperature for 2 hours,the value of frequency/current/ SPL should meet specifications shown in page 2.

c) HUMIDITY TEST
25 ± 2℃, 90-95%RH, 5hr=>up to 55 ± 2℃, 90-95%RH, 0.5hr =>55 ± 2℃, 90-95%RH, 5hr=>down to 25 ± 2℃, 90-95%RH, 0.5hr, 10 cycles

d) THERMAL SHOCK TEST

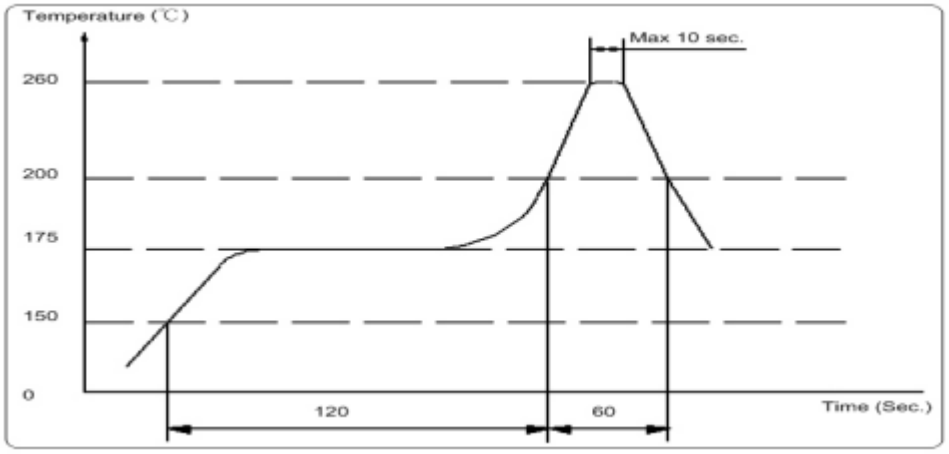


After exposure to above temperature cycle for 5 times and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

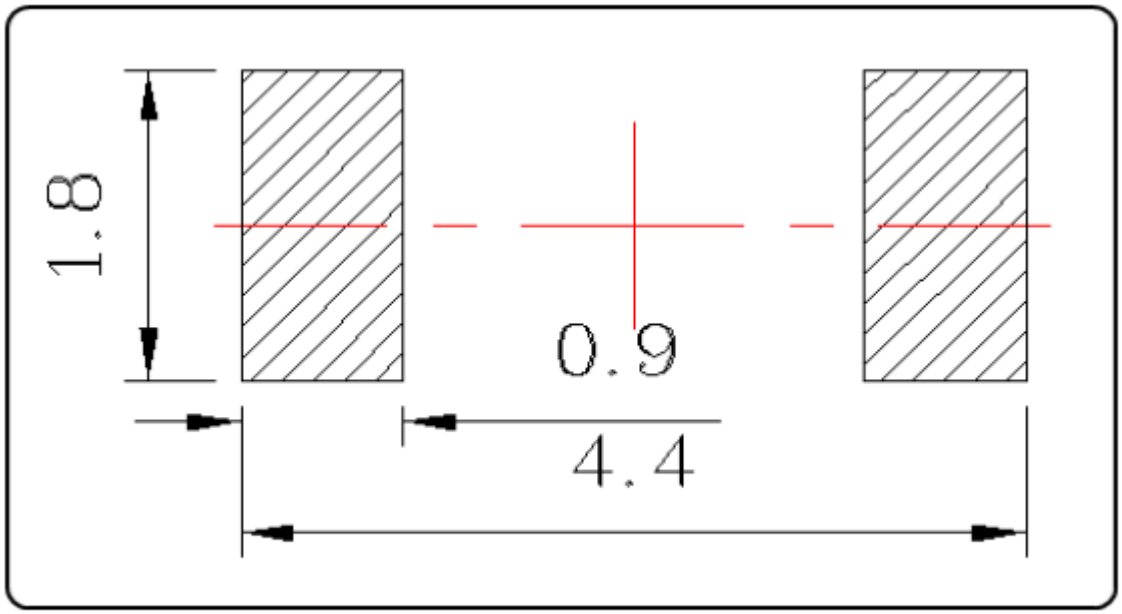
e) VIBRATION TEST
After vibrating the object with 1.5mm amplitude at 10 - 50 Hz in 3 perpendicular directions for 2 hours each, the value of frequency/current/SPL should meet specifications shown in page 2.

f) DROP TEST
After Dropping naturally from 700mm height onto the surface of 10mm wooden board with 3 directions,the value of frequency/current/SPL should meet specifications shown in page 2.

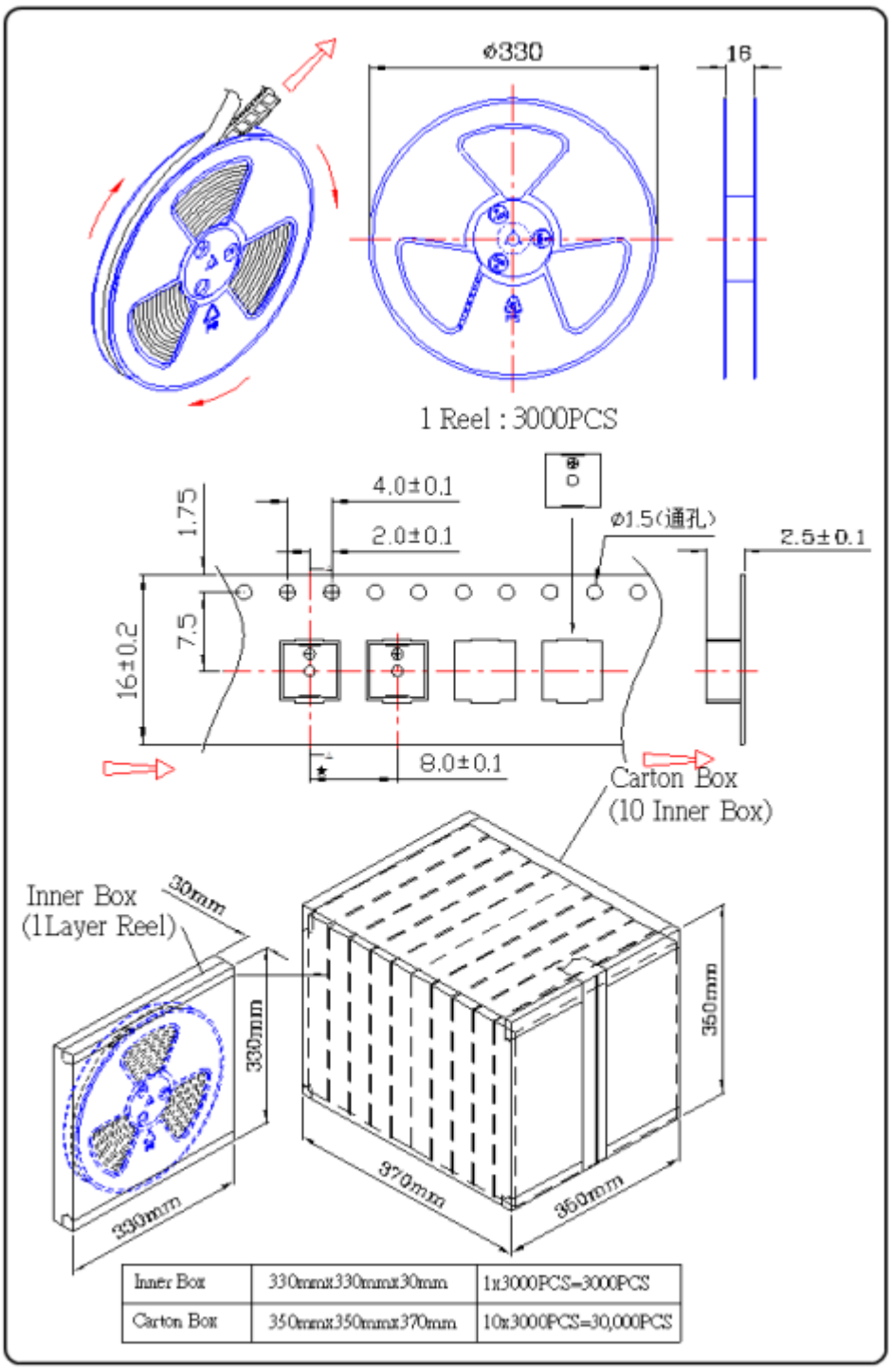
Recommended Reflow Profile



Recommended PCB Land Pattern



Packaging Information



Inner Box	330mmx330mmx30mm	1x3000PCS=3000PCS
Carton Box	350mmx350mmx370mm	10x3000PCS=30,000PCS

Revision Table

Index Nr.	Date Reason - Procedure Change description	Drawing Date	implementation LS-Nr.: Date	Comments