

SPECIFICATIONS SHEET FOR APPROVAL

MAGNETIC BUZZER
P/N: MBS9650A12PM-01

DESCRIPTION: L9.6mm, W9.6mm, H5.0mm Magnetic Buzzer, 2700Hz, 12V, 85dB at 10cm, SMD

VERSION: 01

DATE: 1-Mar-11

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	1-Mar-11

APPROVED BY :

CUSTOMER NAME :

DATE :

SPECIFICATIONS SHEET

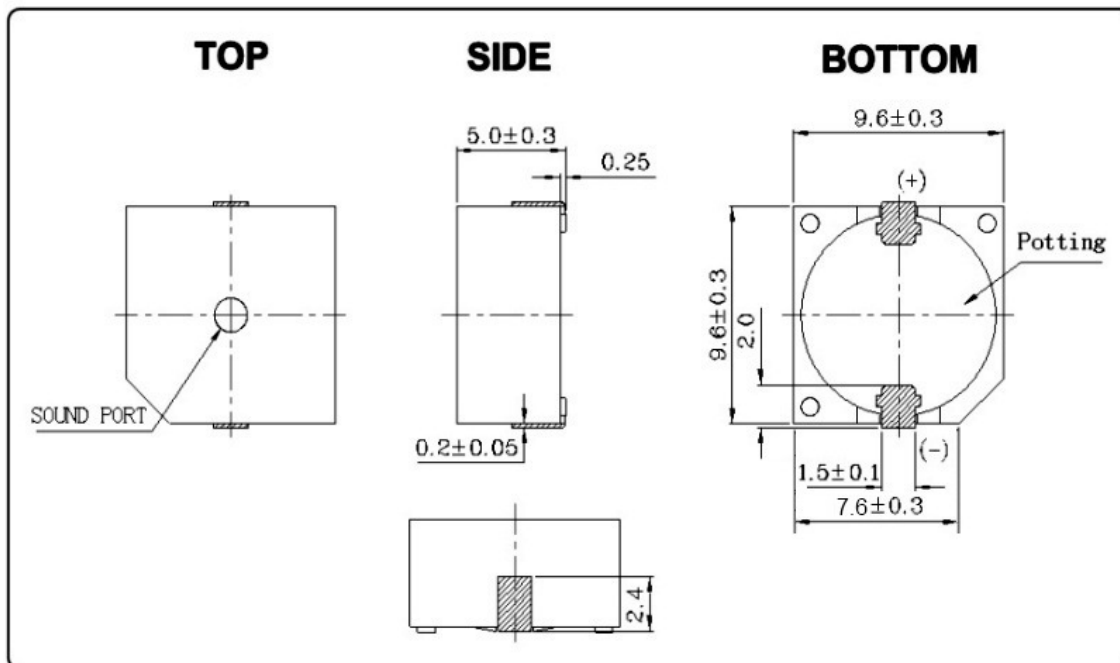
MAGNETIC BUZZER
P/N: MBS9650A12PM-01

1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*MIN SOUND PRESSURE LEVEL AT 10 CM	85	dBA
RATED VOLTAGE	12	Vdc
OPERATING VOLTAGE	7 – 15	Vdc
RESONANCE FREQUENCY	2,700 ± 300	Hz
*MAX OPERATING CURRENT	30	mA
OPERATING TEMPERATURE	-20 to +85	°C
STORAGE TEMPERATURE	-40 to +85	°C
HOUSING	PPS	-
WEIGHT	1.5	g

*Value applying rated voltage

2. DIMENSIONS (unit in mm)



Tolerance: ± 0.5 mm except specified

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All specifications subject to change without notice

3. RELIABILITY TEST

a) HIGH TEMPERATURE TEST

After exposure at $+85 \pm 2^\circ\text{C}$ for 96 hours and room temperature for 2 hours, the value of frequency/current/SPL should meet specifications shown in page 2.

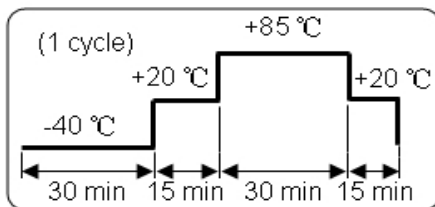
b) LOW TEMPERATURE TEST

After exposure at $-40 \pm 2^\circ\text{C}$ 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

$25 \pm 2^\circ\text{C}$, 90-95%RH, 5hr=>up to $55 \pm 2^\circ\text{C}$, 90-95%RH, 0.5hr => $55 \pm 2^\circ\text{C}$, 90-95%RH, 5hr=>down to $25 \pm 2^\circ\text{C}$, 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.

g) SOLDERING HEAT RESISTANCE

Samples put through reflowing soldering oven 2 times

h) SOLDERABILITY

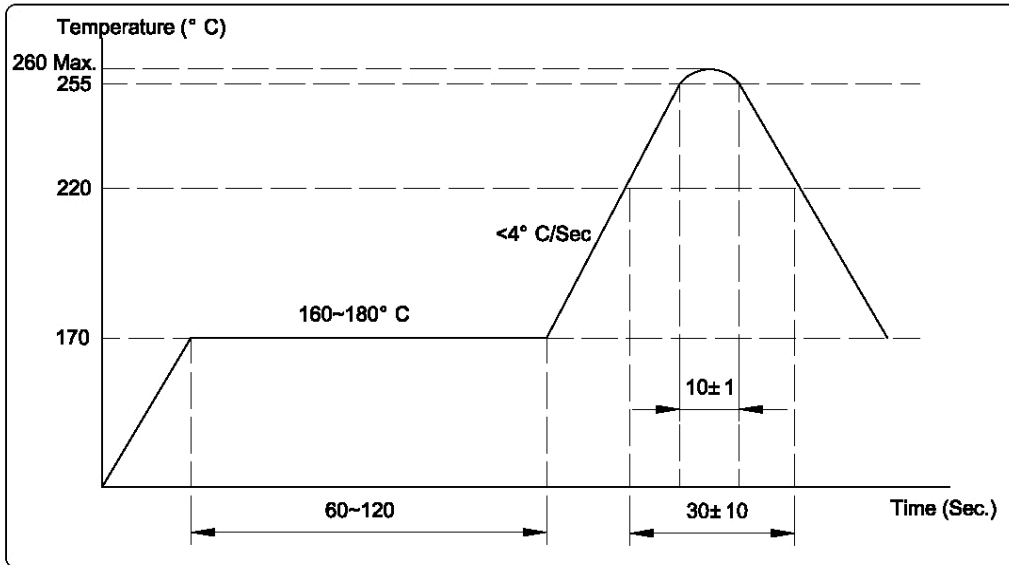
Samples put on PCB with solder paste through reflowing soldering oven 1 times

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4. RECOMMENDED REFLOWING PROFILE



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