

SPECIFICATIONS SHEET FOR APPROVAL

SMD SPEAKER
P/N: MSS13A085PM8

DESCRIPTION: L13mm, W13mm, H4mm SMD Speaker, 850Hz, 8Ohm, 0.7W, RoHS Compliance (Directive 2002/95/EC)

VERSION: 01

DATE: 10-Aug-2011

REVISIONS

| VERSION | DESCRIPTION | DATE |
|---------|---------------------------|-----------|
| 01 | Released from engineering | 10-Aug-11 |
| | | |
| | | |
| | | |
| | | |

APPROVED BY :

CUSTOMER NAME :

DATE :

PRELIMINARY SPECIFICATIONS SHEET

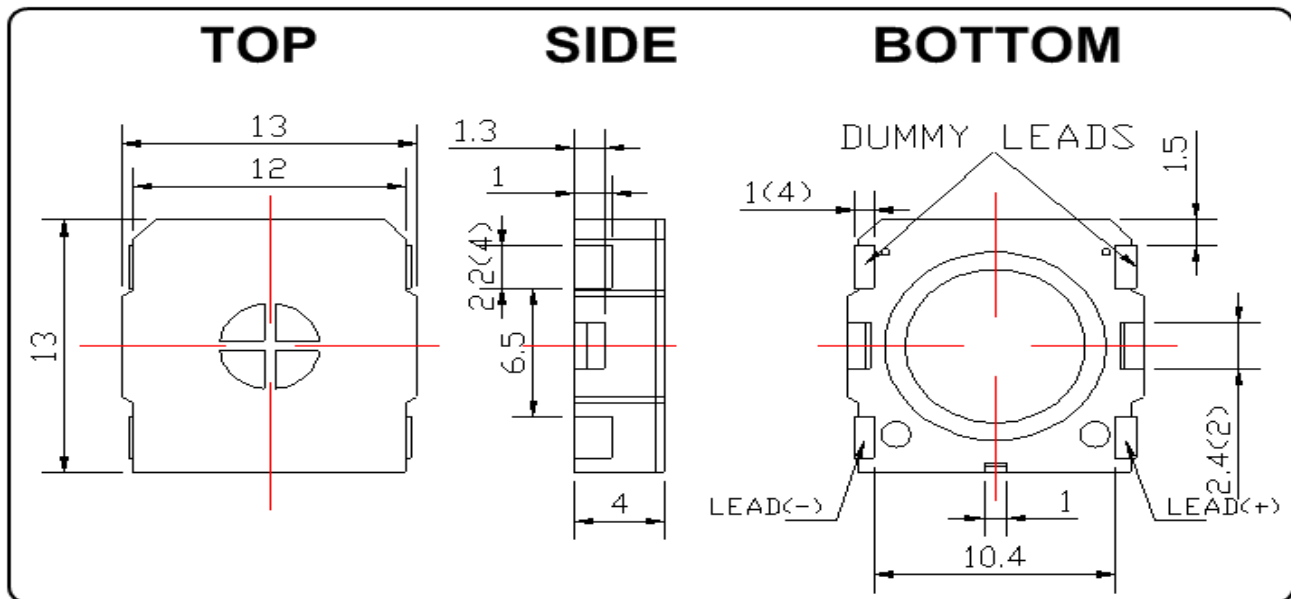
SMD SPEAKER
P/N: MS113-P11126

1. SPECIFICATIONS

| PARAMETERS | VALUES | UNITS |
|--------------------------|-------------------|-------|
| *SOUND PRESSURE LEVEL | 88 ± 3 | dB(A) |
| RESONANCE FREQUENCY (Fo) | 850 ± 20% | Hz |
| FREQUENCY RANGE | Fo – 20,000 | Hz |
| RATED IMPEDANCE | 8 ± 15% | Ohm |
| RATED POWER | 0.7 | W |
| MAX POWER | 1.0 | W |
| OPERATING TEMPERATURE | -30 to +85 | °C |
| STORAGE TEMPERATURE | -40 to +85 | °C |
| HOUSING | LCP | - |
| DIAPHRAGM MATERIAL | SMCO | - |
| TERMINAL MATERIAL | Gold plated brass | - |
| WEIGHT | 1.1 | g |

*Tested at 0.1m 0.7W 1K, 1.6K, 2K, 3.2KHz Average

2. DIMENSIONS (unit in mm)



Tolerance: ±0.5mm except specified

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All specifications subject to change without notice

3. FREQUENCY RESPONSE CURVE



4. RELIABILITY TEST

Testing Criteria

After these test , the change of S.P.L shall be within ± 3 dB

1) Load Test

Rated Power White noise is applied for 96 hours

2) Temperature Test

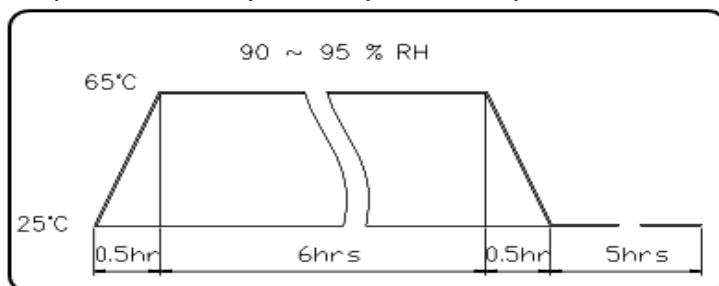
- a) Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check.
- b) Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check

3) Humidity Test

Keep 96 hours at $+ 40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 92-95% and leave 3 hours in normal temperature and then checked.

4) Temperature Cycle Test

The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;



5) Drop Test

Free drop from 100cm height to the concrete floor
X,Y, Z 6 direction. 1 times each, total 6 times.

6) Vibration Test

10~55~10Hz sin-wave sweep 15min. 5G(constant)
X,Y, Z 3 direction. 2 hours each, total 6 hours.

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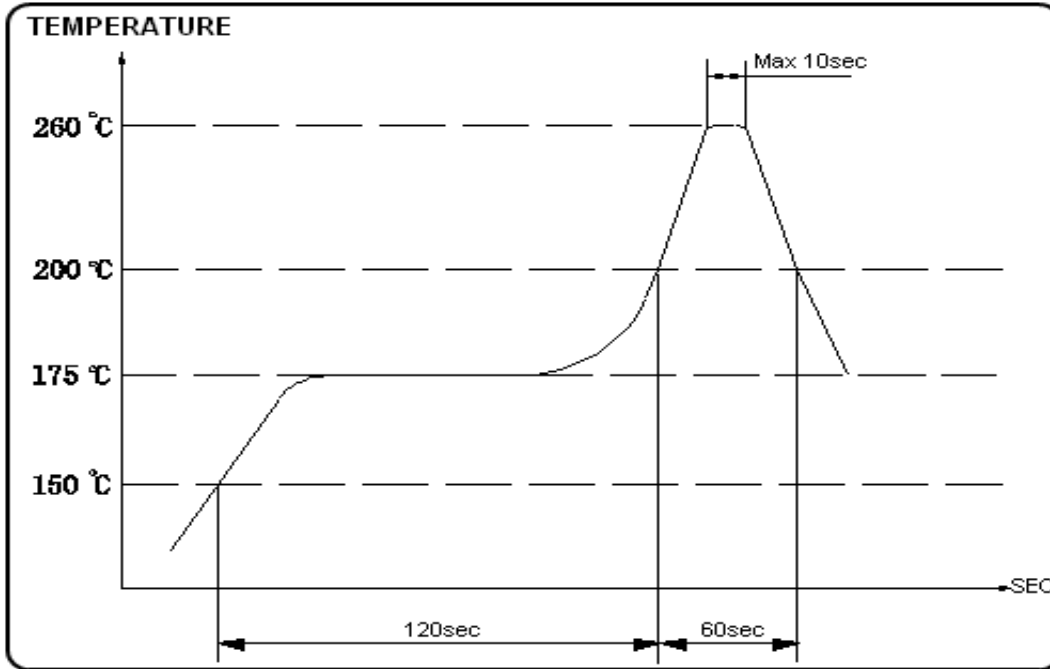
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5. RECOMMEND REFLOW SOLDERING PROFILE

a) Recommendable reflow soldering condition is as follows
(Reflow soldering is twice)

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



Heat resistant line (Used when heat resistant reliability test is performed)

b) Manual soldering

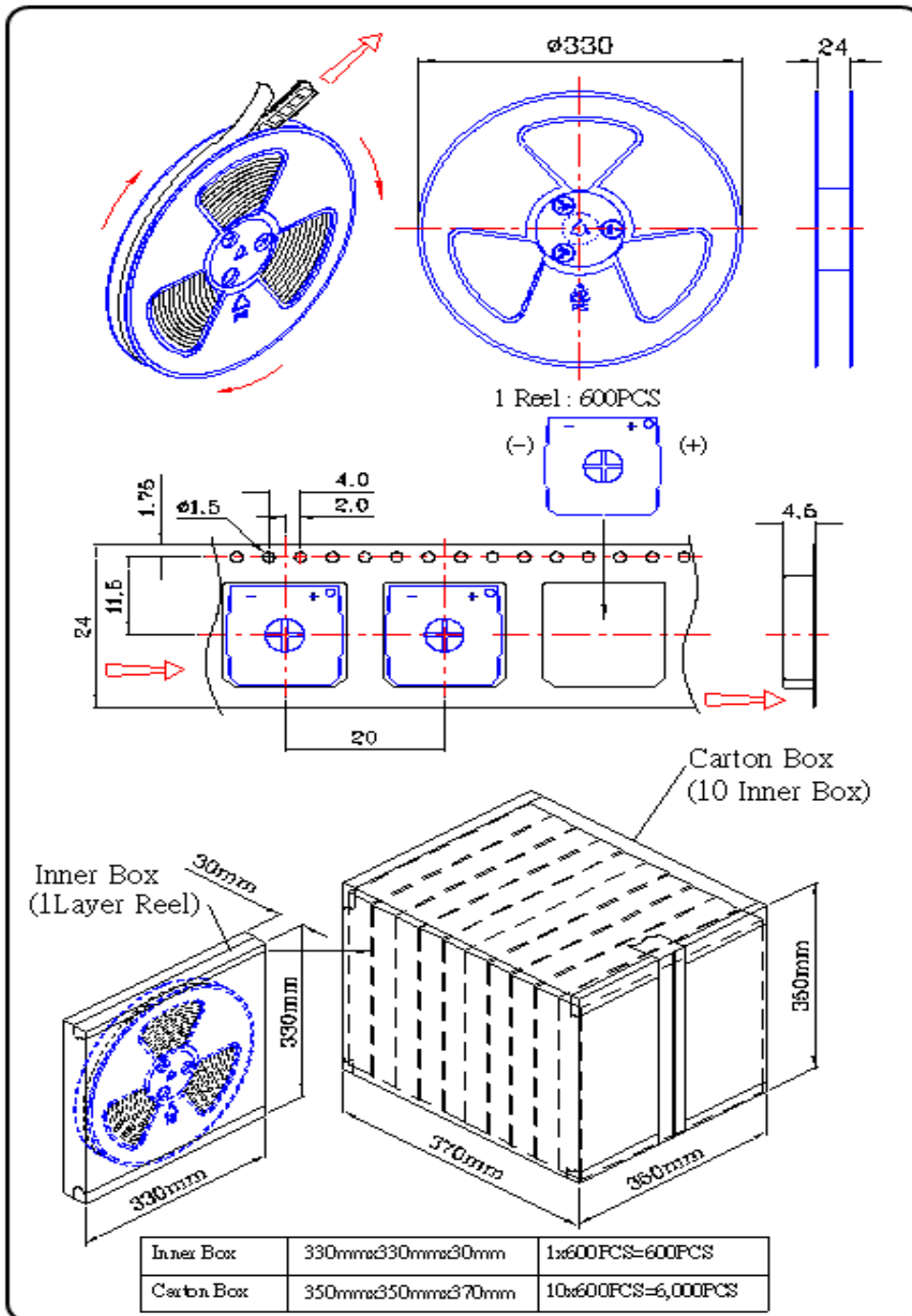
Manual soldering temperature 350° C within 5 sec.

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6. PACKING INFORMATION



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