

Data Sheet

SMS-2008MS-R

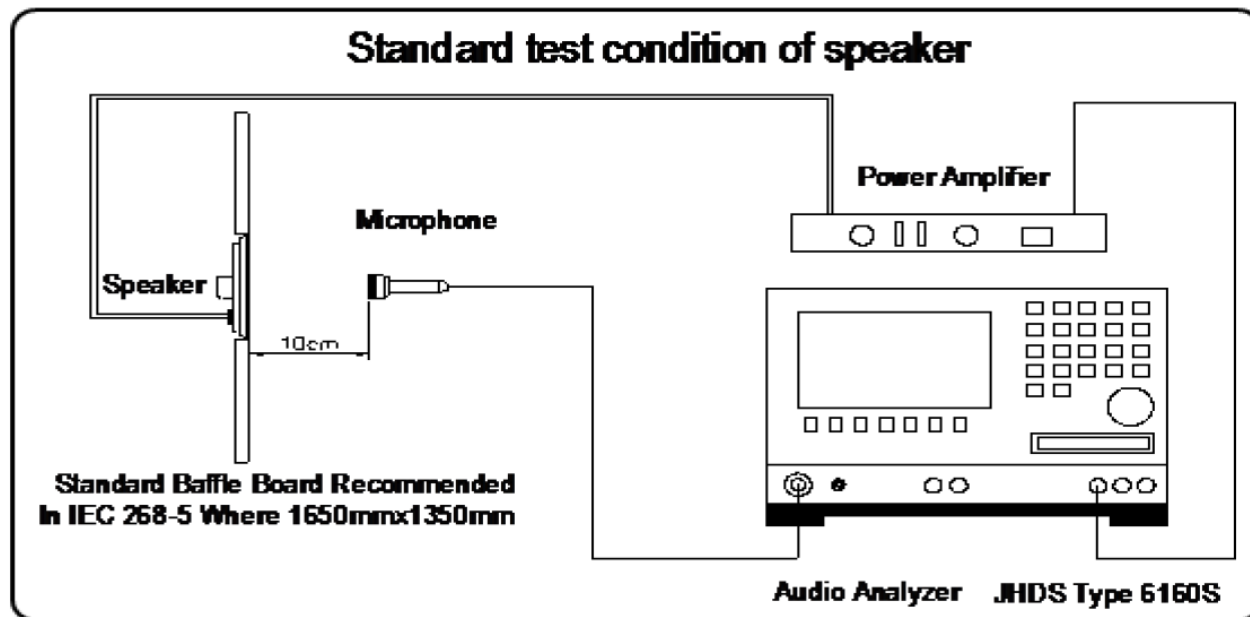
Features:

- Pick-and-place, reflow capable speaker with good output
- Great frequency response in a small package
- Grill is integrated into the housing for speaker protection

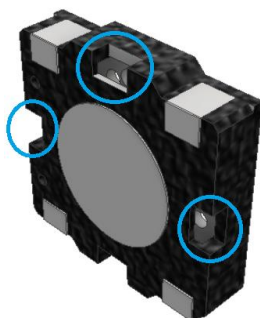
Speaker Specifications

Parameters	Values	Units
Rated Input Power	0.8	Watts
Max Input Power	1.0	Watts
Impedance	8±15%	Ohms
Sensitivity @ 0.1W/0.1M (Avg 1.0, 1.6, 2.0, 3.2 kHz)	90±3	dB
Resonant Frequency	850±20%	Hz
Frequency Range (based on -10 dB limits on frequency response graph)	550 ~ 20,000	Hz
Frame Material	LCP	-
Magnet Material	SmCo	-
Weight	1.5	Grams
Acceptable Soldering Methods	Hand Solder, Reflow Solder	See below for soldering information
Environmental Compliances	RoHS	-
Polarity	Diaphragm moves outward when positive voltage is applied to positive terminal	-
Storage Temperature	-40 ~ +105	°C
Operating Temperature	-40 ~ +105	°C

Measurement Method



Typical Frequency Response (0.89V signal applied)



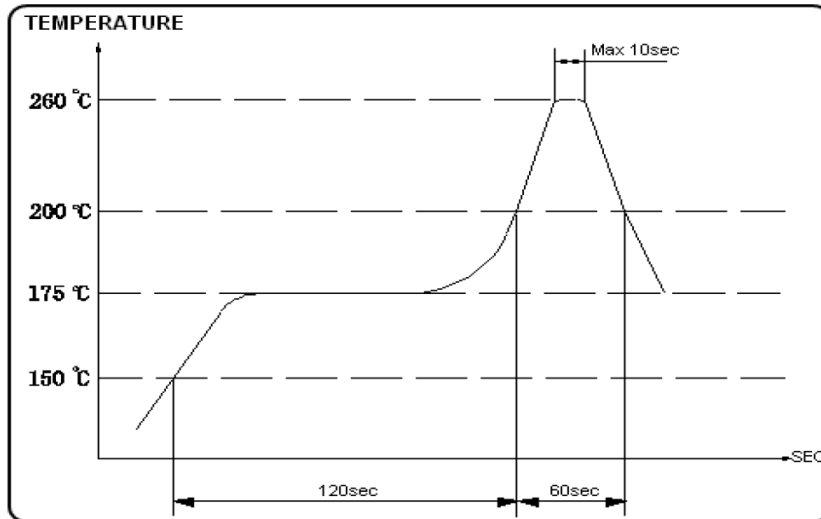
For best frequency response results, fill in these vent holes after reflow or hand soldering to prevent potential cancellation.

Recommended Soldering Procedure

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

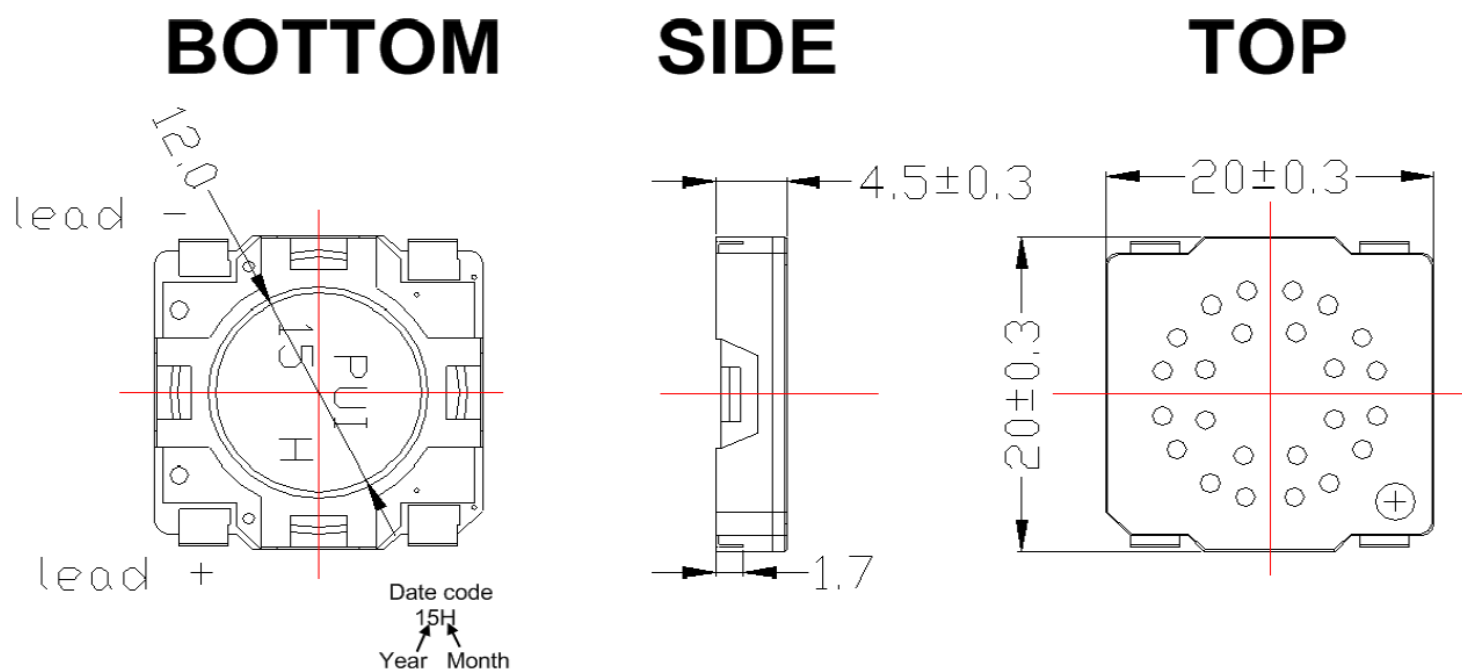
Manual soldering temperature 350° C within 5 sec.

Reliability Testing

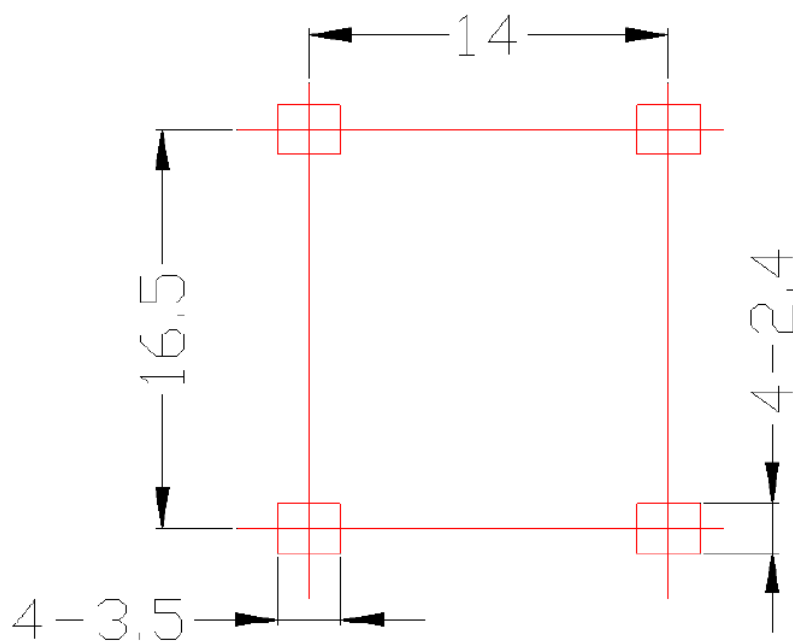
Type of Test	Test Specifications
High Temperature Test	96 hours at +85°C allow speaker to rest at room temperature for 3 hours before testing
Low Temperature Test	96 hours at -40°C allow speaker to rest at room temperature for 3 hours before testing
Humidity Test	96 hours at +40°C with relative humidity at 92-95% allow speaker to rest at room temperature for 3 hours before testing
Temperature Cycle Testing	The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of; The graph shows a temperature cycle testing profile. The y-axis is labeled 'TEMPERATURE' and ranges from 25 °C to 65 °C. The x-axis is labeled 'SEC'. The profile starts at 25 °C, rises to 65 °C, and is maintained for 6 hours. It then falls back to 25 °C, which is maintained for 5 hours. The total time for one cycle is 12 hours. The relative humidity is 90 ~ 95 % RH.
Vibration Test	10~55~10 Hz sine-sweep 15 min. at 5G constant. X, Y, Z 6 directions, 1 time for a total of 6 cycles.
Drop Test	Free drop from 100cm height onto concrete floor, X, Y, Z 6 directions, 1 time for a total of 6 cycles
Load Test	Apply white noise at the rated power for 96 hours

Call out how pass/fail conditions are determined after the reliability testing is complete

Dimensions

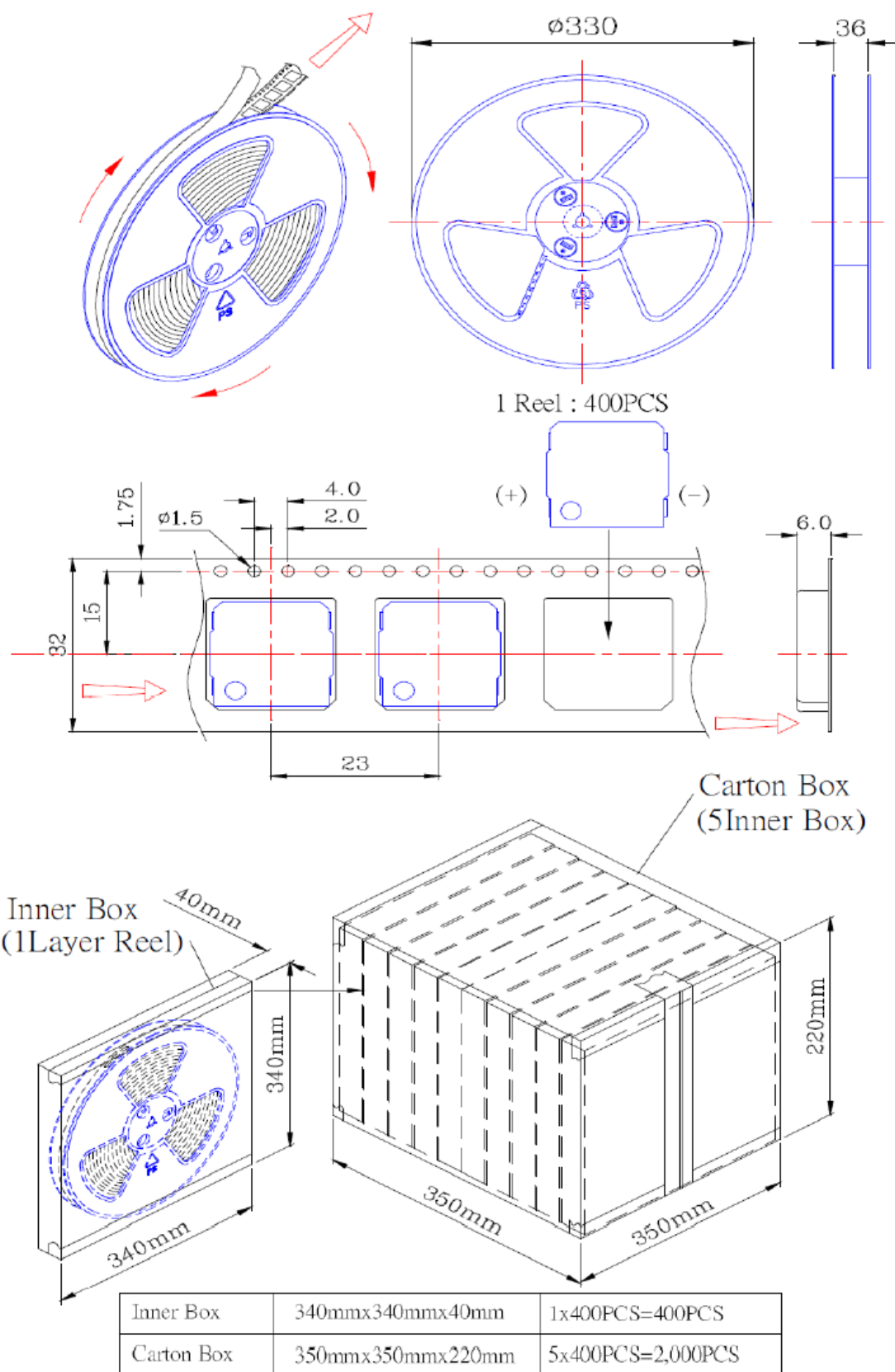


Suggested Land Pattern*



*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.

Packaging



Specifications Revisions

Revision	Description	Date
-	Released from Engineering	8/25/2015
A	Revised Operating & Storage Temperature range	5/14/2020

Note:

1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are $\pm 0.5\text{mm}$ and angles are $\pm 3^\circ$.
2. Specifications subject to change or withdrawal without notice.

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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