

AS01308MR-R 13mm Speaker

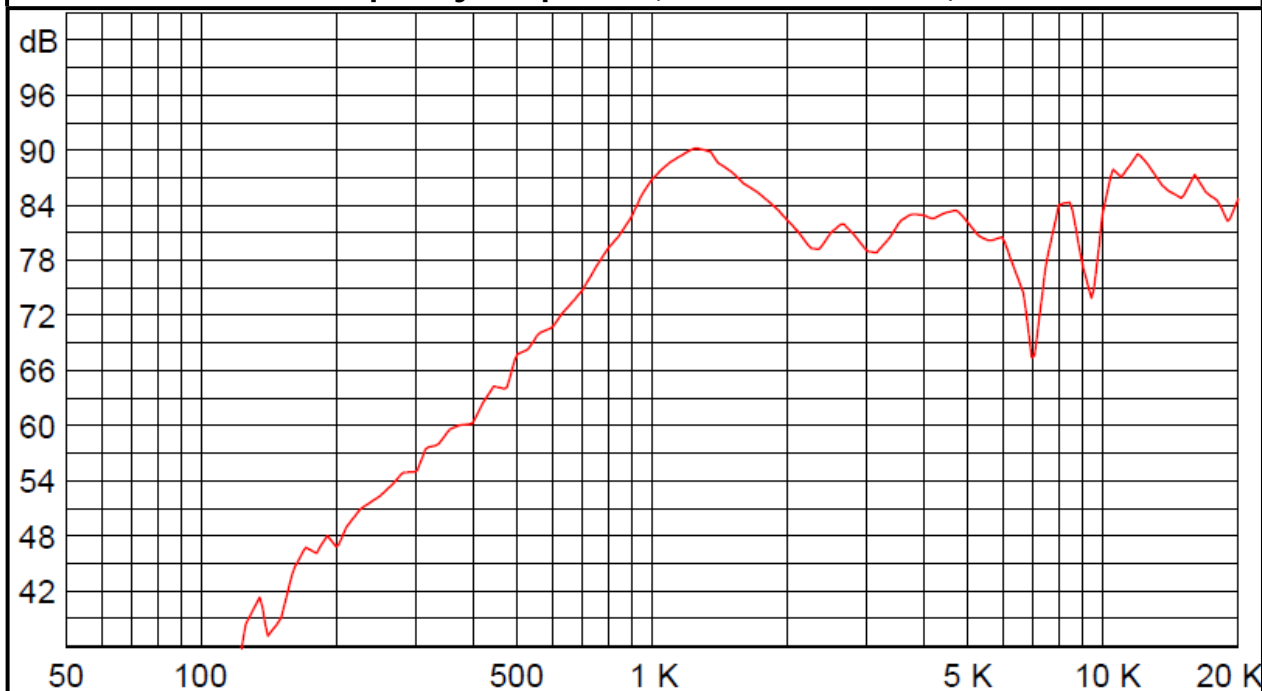
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 13mm diameter speaker with Neodymium magnet for 86 dB sensitivity
- 0.2W continuous, 0.4W maximum power handling and 8 Ω impedance
- Mylar cone with pleated surround for wide frequency response



Frequency Response (0.2W @ 0.1 meter)



Audio Products Division



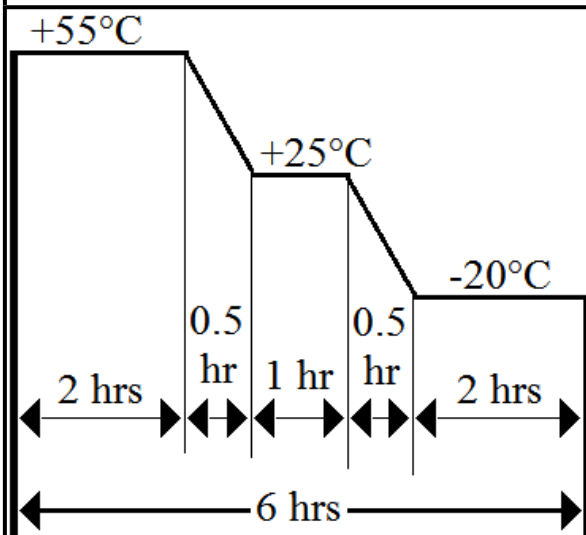
AS01308MR-R 13mm Speaker

Mechanical and Environment Testing

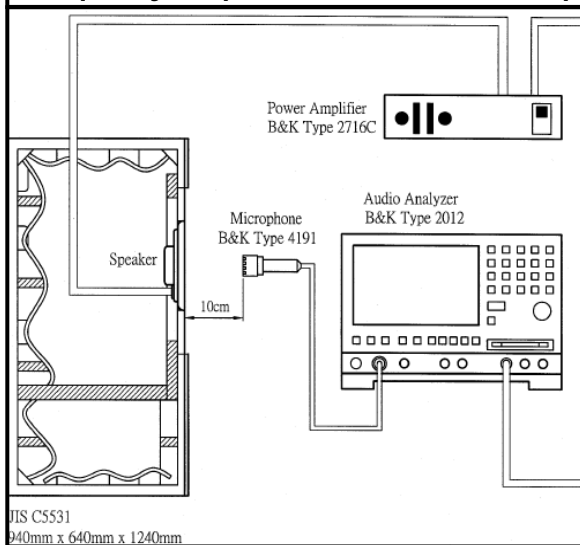
| Test Description | Test Condition |
|------------------------|---|
| High Temperature | 55°C with random humidity for 96 hours |
| Low Temperature | -20°C with random humidity for 96 hours |
| Humidity | 40°C with 90% to 95% relative humidity for 96 hours |
| Vibration | 1.5 mm movement modulated at 10 to 55 Hz for 2 hours |
| Drop Test | 75 cm free fall onto 40 mm thick board, 10 cycles |
| Temperature Cycle Test | -20°C to 55°C, 5 cycles (refer to Temperature Cycle Test Graph) |

After tests, speaker shall rest for 1 hours. SPL shall not deviate ± 3 dB from pre-test measurement.

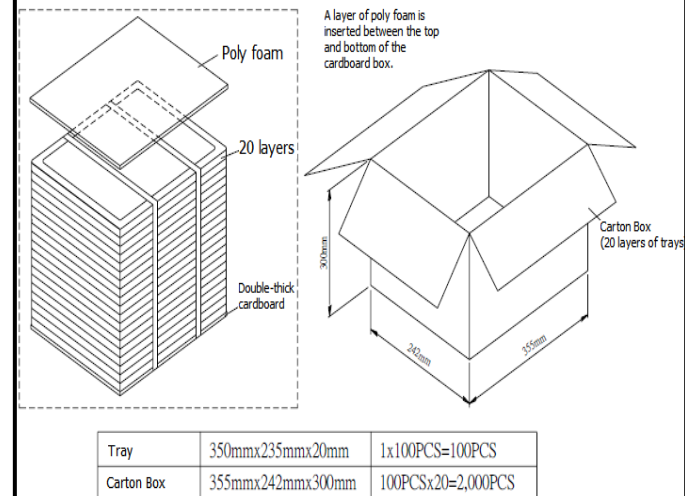
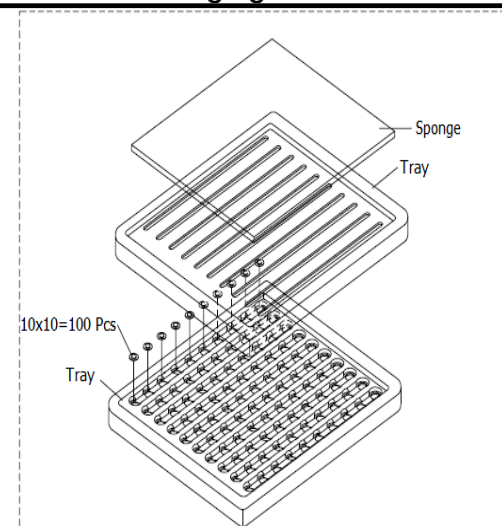
Temperature Cycle Test Graph



Frequency Response Measurement Setup



Packaging Information



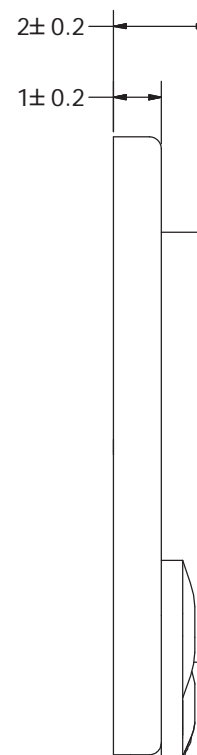
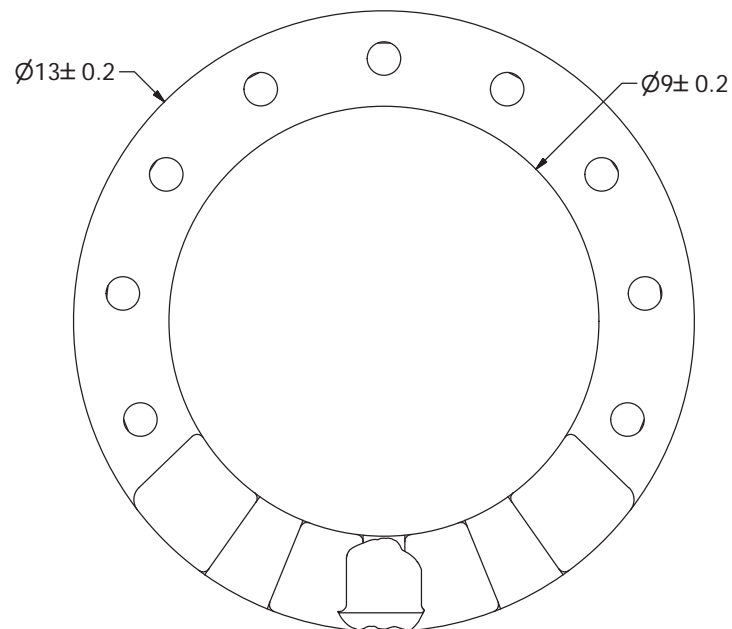
SPECIFICATIONS

| PARAMETERS | VALUES | UNITS |
|---|------------------|-------|
| RATED INPUT POWER | 0.2 | W |
| MAX INPUT POWER | 0.4 | W |
| IMPEDANCE | $8 \pm 15\%$ | OHM |
| OUTPUT SPL @ 0.2W/0.1M (AT 1.5, 2.0, 2.5, 3.0 kHz) | 86 ± 3 | dBA |
| DISTORTION (MAX.) | 10% | - |
| RESONANT FREQUENCY | $1,050 \pm 20\%$ | Hz |
| FREQUENCY RANGE | 1,050 ~ 20,000 | Hz |
| HOUSING MATERIAL | METAL | - |
| CONE MATERIAL | MYLAR | - |
| MAGNET MATERIAL | Nd-Fe-B | - |
| OPERATING TEMPERATURE | -20 ~ +55 | °C |
| WEIGHT | 0.7 | grams |

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REVISION HISTORY

| LTR | DESCRIPTION | DATE | APPROVED |
|-----|--|------------|----------|
| - | RELEASED FROM ENGINEERING | 8/4/2005 | |
| A | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 10/30/2008 | B.R. |
| B | REVISED TOLERANCES AND ROHS STATUS | 10/9/2013 | M.L. |



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2011/65/EU COMPLIANT.

| | | | | | | | | |
|--|-------------------|---|----------|------------|----------|-------------|----------|--------------------------------|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ± 0.5 AND ANGLES ARE $\pm 3^\circ$. | SIZE A3 | Designed by | Date | Checked by | Date | Approved by | Date | Drawn Date |
| | | J.A.F. | 8/4/2005 | B.R. | 8/4/2005 | E.P. | 8/4/2005 | 10/30/2008 |
| | |  AS01308MR-R Speaker | | | | | | Edition - Sheet 1 / 1 |

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