



MODEL: CLS0231 | DESCRIPTION: SPEAKER

FEATURES

- 23 mm
- round frame
- 1.0 W
- 8  $\Omega$
- neodymium magnet
- paper cone

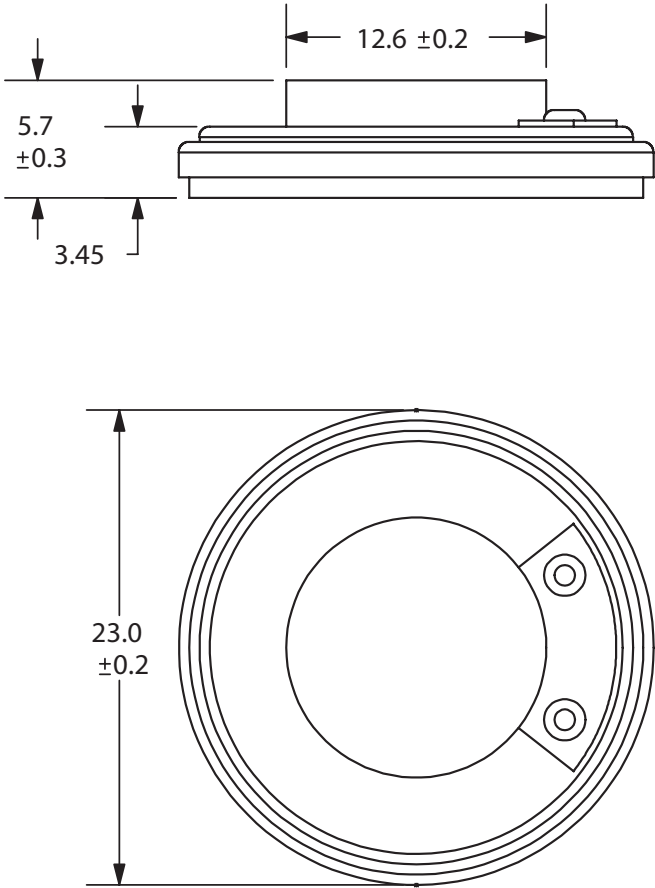


SPECIFICATIONS

| parameter               | conditions/description                         | min | typ | max    | units        |
|-------------------------|------------------------------------------------|-----|-----|--------|--------------|
| input power             |                                                |     | 1.0 | 1.5    | W            |
| impedance               | at 1.0 kHz, 1.0 V                              | 6.8 | 8   | 9.2    | $\Omega$     |
| resonant frequency (Fo) | at 1.0 V                                       | 520 | 650 | 780    | Hz           |
| frequency response      |                                                | Fo  |     | 18,000 | Hz           |
| sound pressure level    | at 1.0 W, 50 cm, avg at 0.8, 1.0, 1.2, 1.5 kHz | 86  | 89  | 92     | dB           |
| buzz, rattle, etc.      | must be normal at sine wave                    |     |     | 2.83   | V            |
| dimensions              | $\varnothing$ 23 x 5.7                         |     |     |        | mm           |
| magnet                  | Nd-Fe-B                                        |     |     |        |              |
| cone material           | paper                                          |     |     |        |              |
| terminal                | solder pads                                    |     |     |        |              |
| weight                  |                                                |     | 3.7 |        | g            |
| operating temperature   |                                                | -25 |     | 70     | $^{\circ}$ C |
| hand soldering          | for maximum 3 seconds                          | 340 | 350 | 360    | $^{\circ}$ C |
| RoHS                    | yes                                            |     |     |        |              |

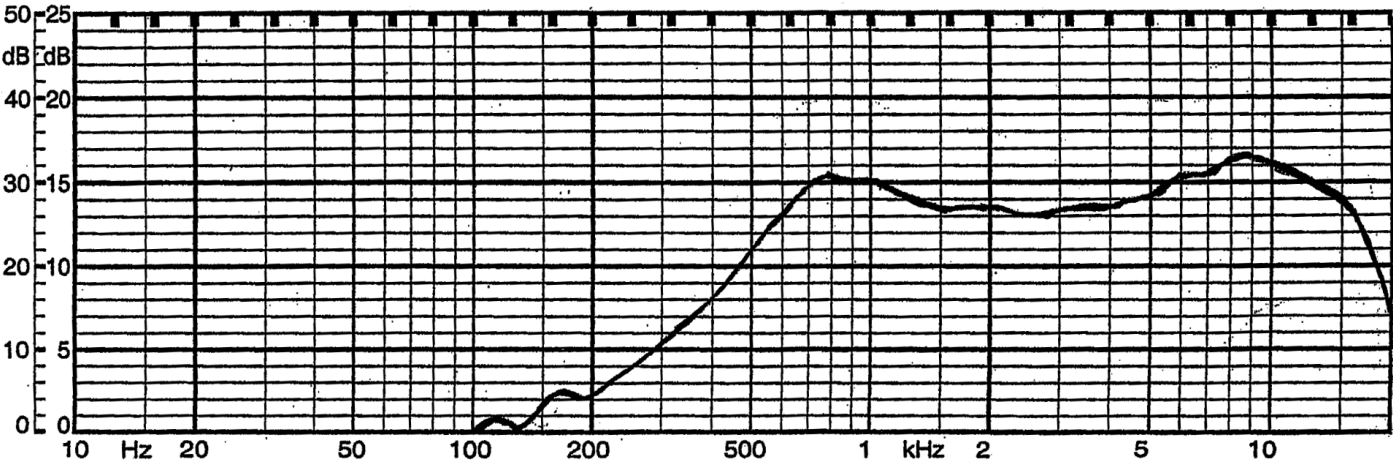
MECHANICAL DRAWING

units: mm



FREQUENCY RESPONSE CURVE

| parameter             | conditions/description |
|-----------------------|------------------------|
| potentiometer range   | 50 dB                  |
| rectifier             | RMS                    |
| lower limit frequency | 20 Hz                  |
| wr. speed             | 100 mm/sec             |
| zero level            | 60 dB                  |



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 07/03/2007 |
| 1.01 | updated datasheet                 | 02/01/2010 |
| 1.02 | brand update                      | 08/20/2020 |
| 1.03 | logo, datasheet style update      | 08/05/2022 |
| 1.04 | CUI Devices rebranded to Same Sky | 09/11/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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