

MODEL: CLS0231MA-1-L152 | **DESCRIPTION:** SPEAKER**FEATURES**

- 23 mm
- round frame
- 0.5 W
- 8 Ω
- neodymium magnet
- mylar cone
- wire leads

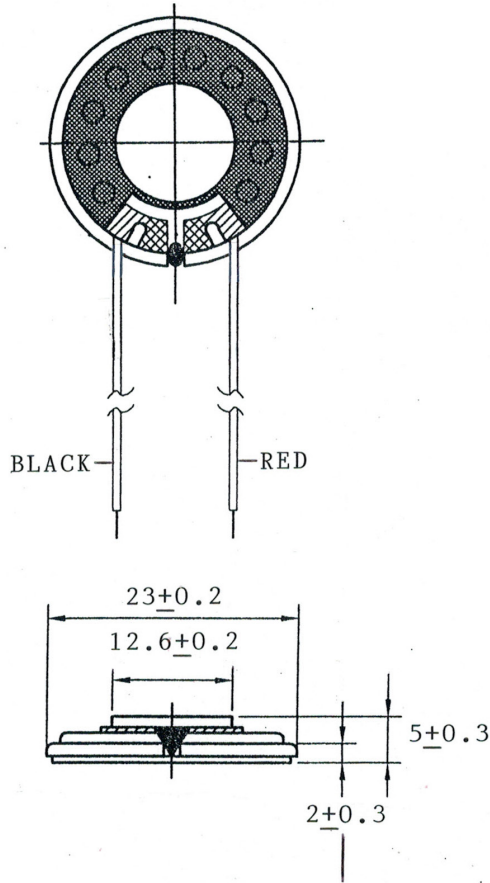
**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-------------------------|------------------------------------------------|-----|-----|--------|--------------|
| input power | | | 0.5 | 1.0 | W |
| impedance | at 1.0 kHz, 1.0 V | 6.8 | 8 | 9.2 | Ω |
| resonant frequency (Fo) | at 1.0 V | 536 | 670 | 804 | Hz |
| frequency response | | Fo | | 20,000 | 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 | | | 2.0 | V |
| dimensions | \varnothing 23 x 5 | | | | mm |
| magnet | Nd-Fe-B | | | | |
| cone material | mylar | | | | |
| terminal | wire leads | | | | |
| weight | | | 4.4 | | g |
| operating temperature | | -25 | | 60 | $^{\circ}$ C |
| hand soldering | for maximum 3 seconds | 340 | 350 | 360 | $^{\circ}$ C |
| RoHS | yes | | | | |

MECHANICAL DRAWING

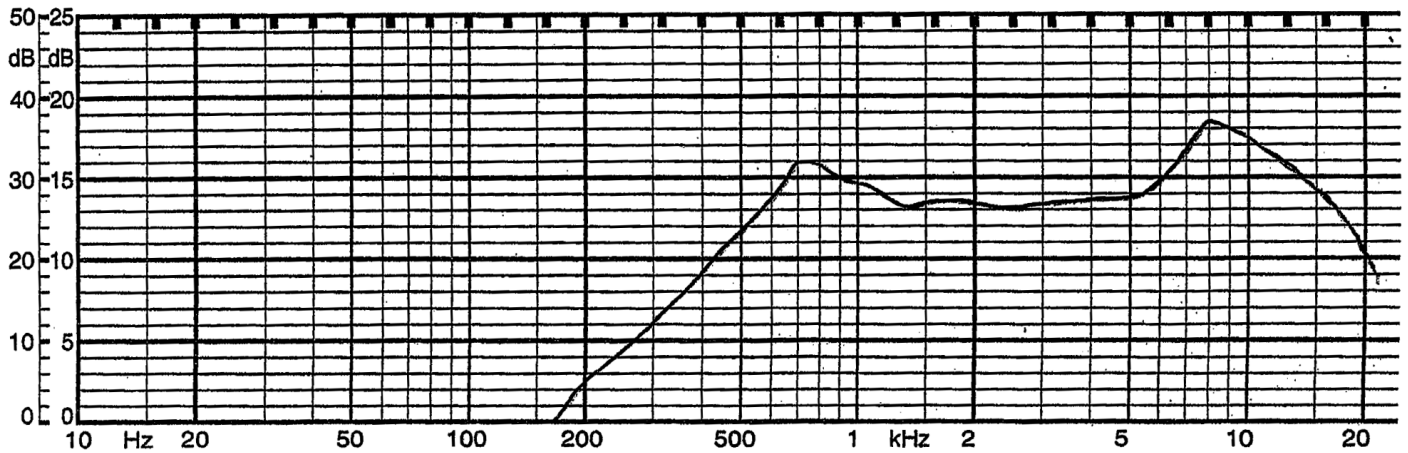
units: mm

wire: UL1007 28 AWG
wire length: 152 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 | 06/12/2020 |

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

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