

MODEL: CLS0231MP-1 | **DESCRIPTION:** SPEAKER**FEATURES**

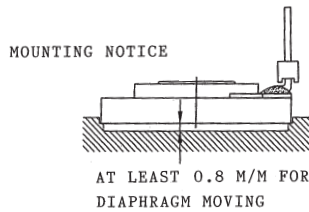
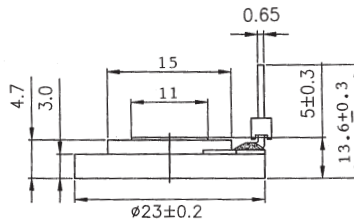
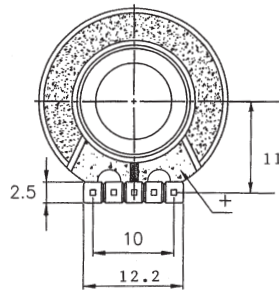
- 23 mm
- round frame
- 0.1 W
- 8 Ω
- neodymium magnet
- mylar cone

**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|-------------------------|--|-----|-----|--------|--------------|
| input power | | | 0.1 | 0.2 | W |
| impedance | at 1.5 kHz, 0.9 V | 6.8 | 8 | 9.2 | Ω |
| resonant frequency (Fo) | at 0.9 V | 384 | 480 | 576 | Hz |
| frequency response | | Fo | | 20,000 | Hz |
| sound pressure level | at 0.1 W, 50 cm, avg at 0.6, 0.8, 1.0, 1.2 kHz | 69 | 72 | 75 | dB |
| buzz, rattle, etc. | must be normal at sine wave | | | 0.9 | V |
| dimensions | \varnothing 23 x 4.7 | | | | mm |
| magnet | Nd-Fe-B | | | | |
| cone material | mylar | | | | |
| terminal | solder pins/posts | | | | |
| weight | | | 3.2 | | g |
| operating temperature | | -25 | | 60 | $^{\circ}$ C |
| RoHS | yes | | | | |

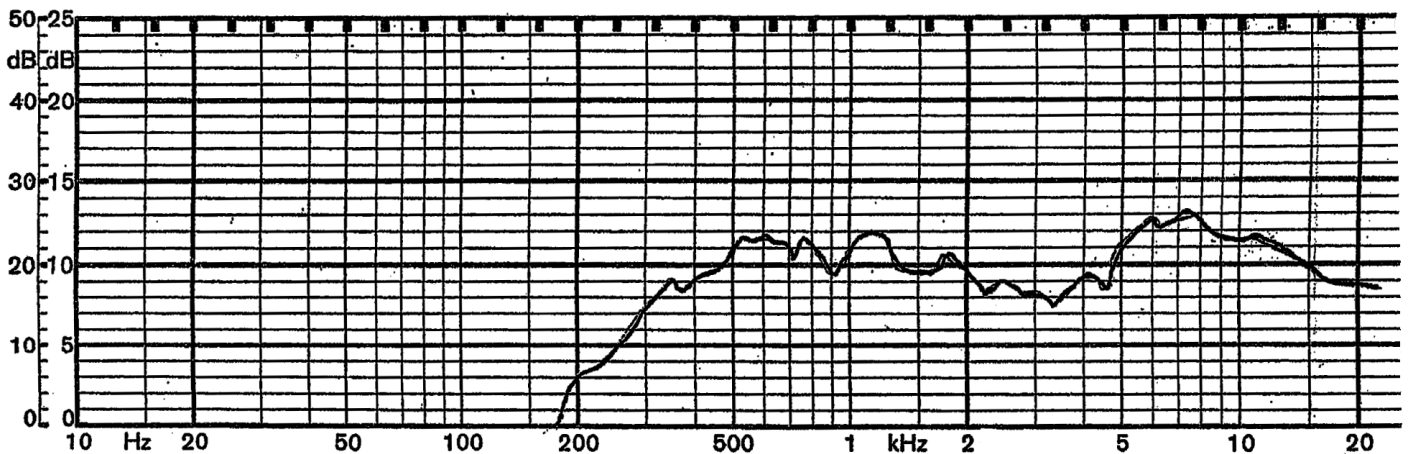
MECHANICAL DRAWING

units: mm
tolerance: ± 0.3 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 | 50 dB |



REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 07/03/2007 |
| 1.01 | dimension updates | 09/29/2009 |
| 1.02 | dimension updates | 04/13/2010 |
| 1.03 | applied new spec template, corrected sound pressure level | 09/30/2013 |
| 1.04 | brand update | 07/01/2020 |

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

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