



PART NUMBER: CLS0231

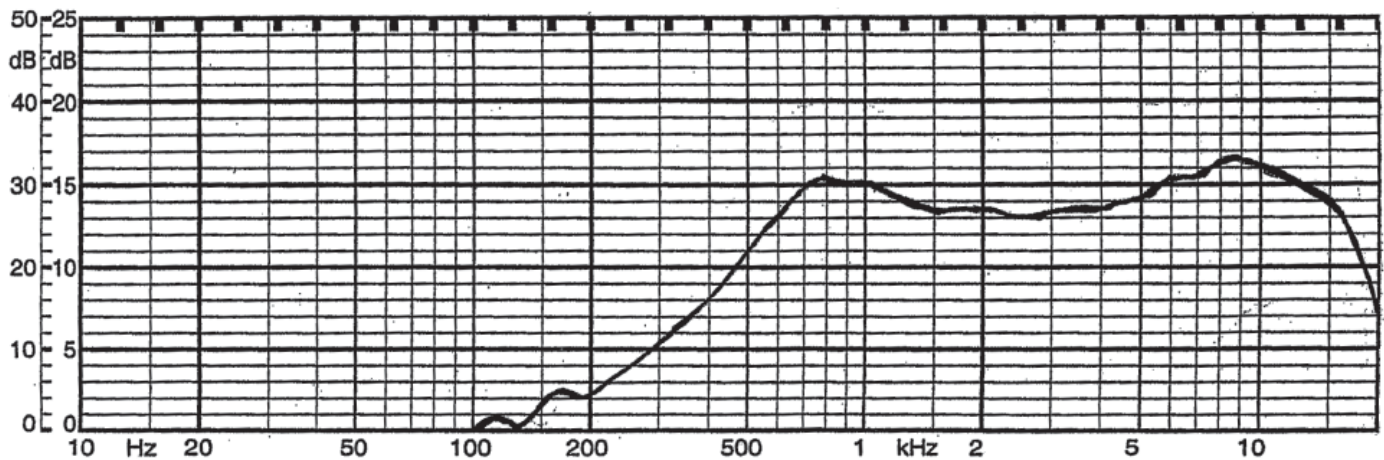
DESCRIPTION: SPEAKER

SPECIFICATIONS

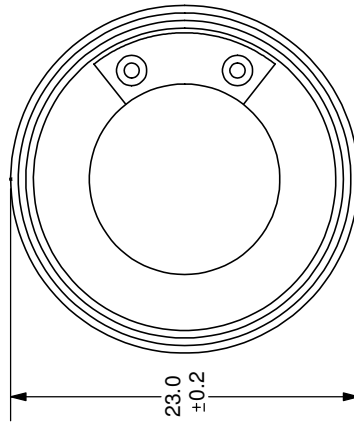
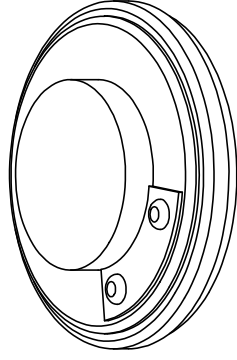
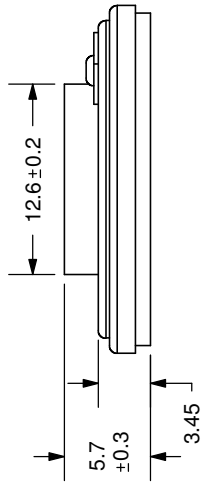
| parameter | conditions/description | min | nom | max | units |
|----------------------|--|-----|------|--------|--------------|
| nominal size | 23 mm | | | | |
| impedance | at 1 kHz, 1 V | 6.8 | 8 | 9.2 | Ω |
| resonant frequency | at 1 V | 520 | 650 | 780 | Hz |
| sound pressure level | 1 W, 50 cm ave., at 0.8, 1, 1.2, 1.5 kHz | 86 | 89 | 92 | dB |
| response | 10 dB max. | Fo | | 18,000 | Hz |
| input power | | | 1 | 1.5 | W |
| operation | must be normal at program source | | 1 | | W |
| buzz, rattle, etc. | must be normal at sine wave | | 2.83 | | V dc |
| magnet | size: 9.5 x 1.5 mm | | | | |
| load test | 24 hours of white noise at | | 1 | | W |
| heat test | 20 ~ 50% RH for 24 hours | 68 | 70 | 72 | $^{\circ}$ C |
| humidity test | 90 ~ 95% RH for 24 hours | 38 | 40 | 42 | $^{\circ}$ C |
| RoHS | yes | | | | |

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 |



| | | |
|------|-------------|----------|
| REV. | DESCRIPTION | DATE |
| A | NEW DRAWING | 7/3/2007 |



TOLERANCE:
 ±0.5mm UNLESS OTHERWISE
 SPECIFIED



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| | |
|----------------------------|--------------------|
| TITLE: LOW PROFILE SPEAKER | REV: A |
| PART NO: CLS0231 | UNITS: MM [INCHES] |
| DRAWN BY: ZRJ | APPROVED BY: |
| | SCALE: 2:1 |