


**CUI INC**
**date** 10/2009

**page** 1 of 2

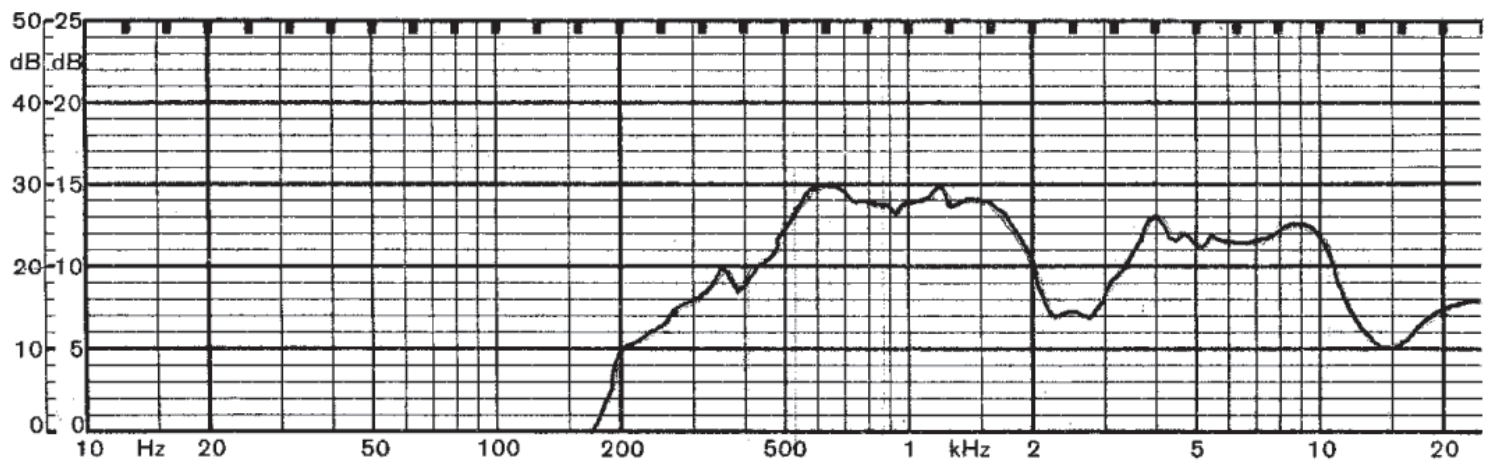
**PART NUMBER: GC0401S**
**DESCRIPTION: SPEAKER**

## SPECIFICATIONS

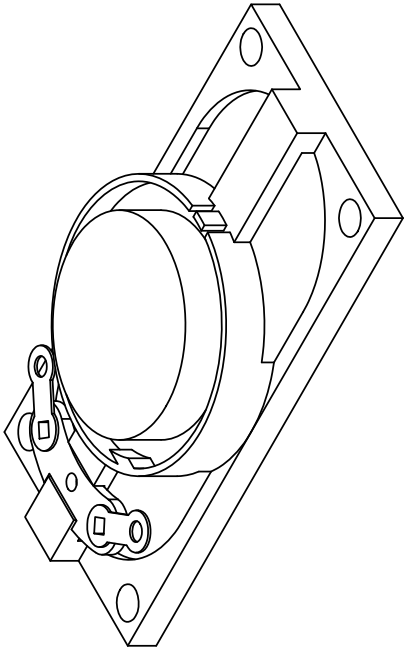
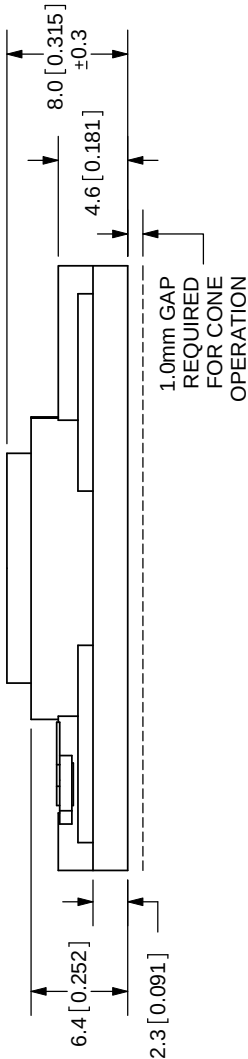
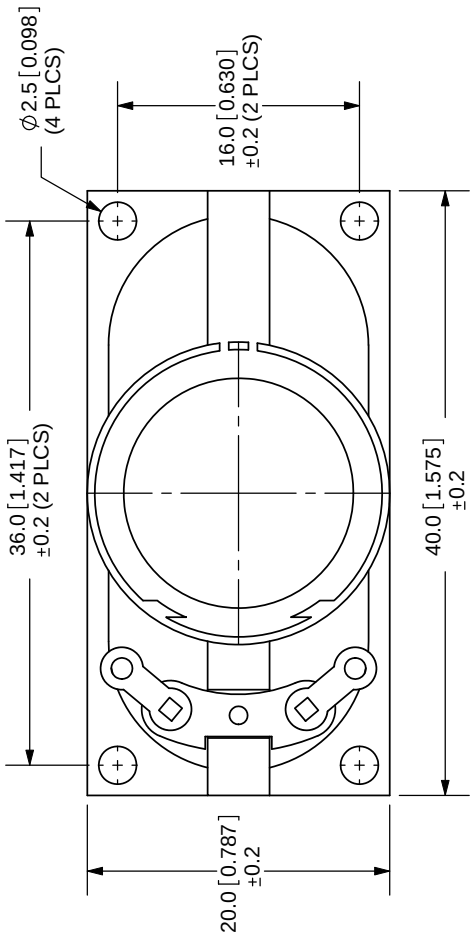
| parameter            | conditions/description                   | min | nom | max    | units              |
|----------------------|------------------------------------------|-----|-----|--------|--------------------|
| nominal size         | 20 x 40 mm                               |     |     |        |                    |
| impedance            | at 1.5k Hz, 1 V                          | 6.8 | 8   | 9.2    | $\Omega$           |
| resonant frequency   | at 1 V                                   | 440 | 550 | 660    | Hz                 |
| sound pressure level | 1 W, 50 cm ave., at 0.6, 0.8, 1, 1.2k Hz | 86  | 89  | 92     | dB                 |
| response             | 10 dB max.                               | Fo  |     | 12,000 | Hz                 |
| input power          |                                          |     | 1   | 2      | W                  |
| operation            | must be normal at program source         |     | 1   |        | W                  |
| buzz, rattle, etc.   | must be normal at sine wave              |     | 2.9 |        | V dc               |
| magnet               | size: 11 x 1.5 mm                        |     |     |        |                    |
| load test            | 24 hours of white noise at               |     | 1   |        | W                  |
| heat test            | 20 ~ 50% RH for 24 hours                 | 63  | 65  | 67     | $^{\circ}\text{C}$ |
| humidity test        | 90 ~ 95% RH for 24 hours                 | 38  | 40  | 42     | $^{\circ}\text{C}$ |
| 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            | 6/4/2007   |
| B    | cone gap diagram added | 10/21/2008 |
| C    | terminal update        | 12/10/2009 |



TOLERANCE:  
±0.5mm UNLESS OTHERWISE  
SPECIFIED



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|                                     |                    |
|-------------------------------------|--------------------|
| TITLE: LOW PROFILE NOTEBOOK SPEAKER | REV: C             |
| PART NO: GC0401S                    | UNITS: MM [INCHES] |
| DRAWN BY: ZRJ                       | APPROVED BY:       |
| SCALE: 2:1                          |                    |