

**PART NUMBER:** CMS0231KLX

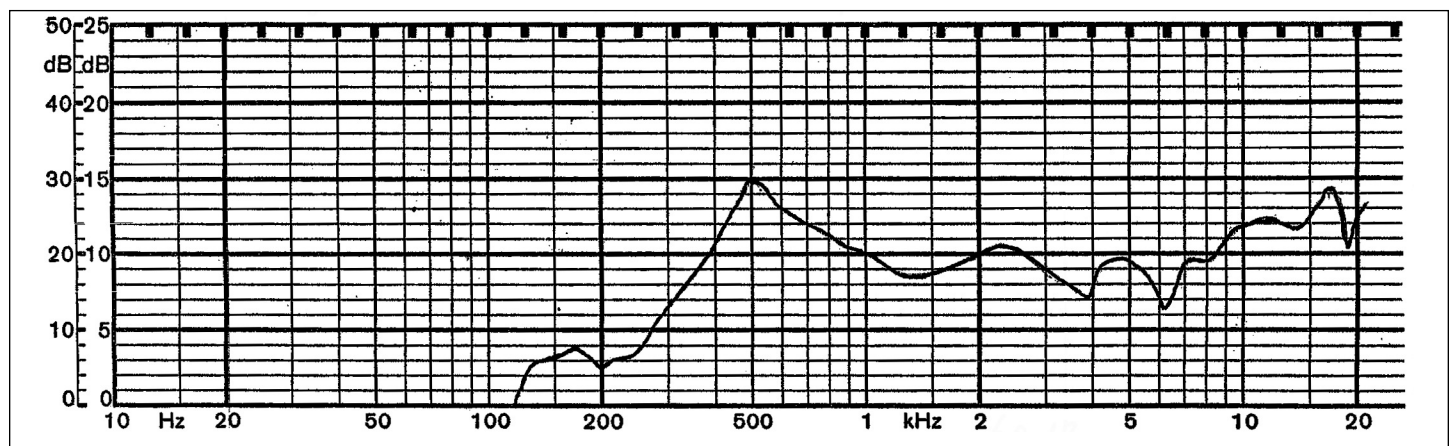
**DESCRIPTION:** speaker

## SPECIFICATIONS

|                      |                                      |                   |                                            |
|----------------------|--------------------------------------|-------------------|--------------------------------------------|
| nominal size         | 23 x 23 x 10.2 mm                    |                   |                                            |
| impedance            | 8 Ohm $\pm$ 15%                      | at                | 1 kHz 1 V                                  |
| resonant frequency   | 450 Hz $\pm$ 90 Hz at                | 1 V               |                                            |
| sound pressure level | 82 dB/W $\pm$ 3 dB                   | 1 W               | 50 cm ave. at 0.6 k, 0.8 k, 1.0 k, 1.2 kHz |
| response             | Fo Hz ~ 20 kHz max 10 dB             |                   |                                            |
| input power          | nominal 2 W                          | handling capacity | 4 W                                        |
| operation            | must be normal at program source 2 W |                   |                                            |
| buzz, rattle, etc.   | must be normal at sine wave 4 V      |                   |                                            |
| magnet               | size: 12.5 x 3.0 mm                  |                   |                                            |
| load test            | white noise 2 W                      | for               | 24 hours                                   |
| heat test            | 65 $\pm$ 2° C                        | 20-50% R.H.       | 24 hours                                   |
| humidity test        | 40 $\pm$ 2° C                        | 90-95% R.H.       | 24 hours                                   |

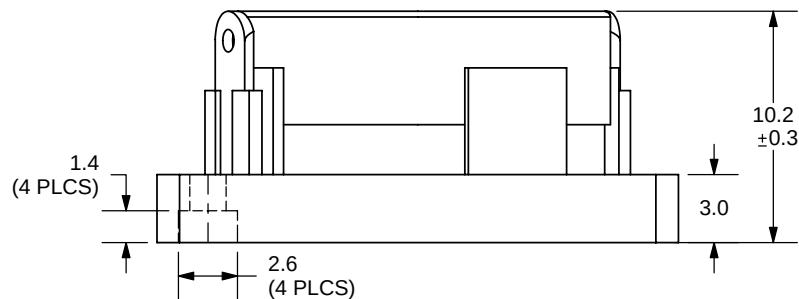
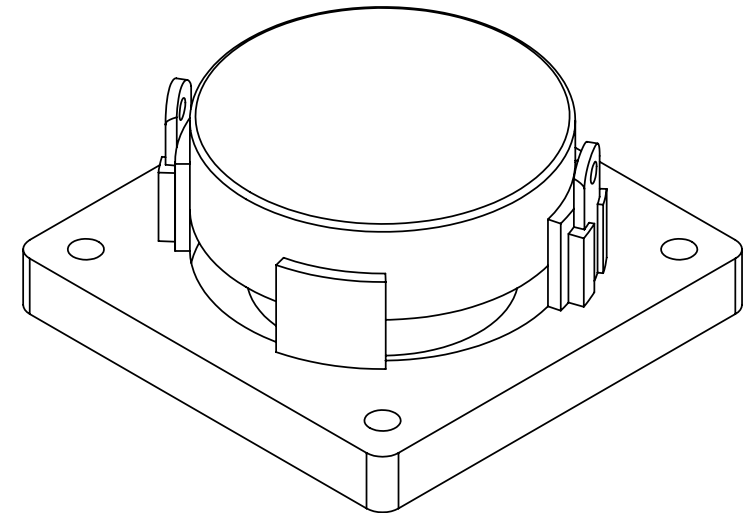
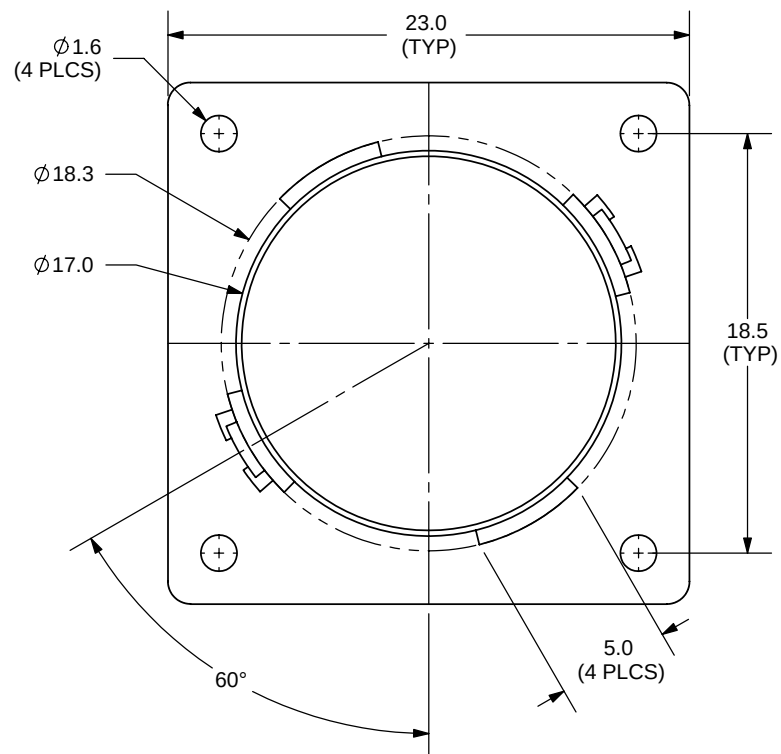
## FREQUENCY RESPONSE CURVE

|                       |            |
|-----------------------|------------|
| 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 | 10/2/2006 |



TOLERANCE:  
 $\pm 0.2\text{mm}$  UNLESS OTHERWISE  
 SPECIFIED



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|                                  |                    |            |
|----------------------------------|--------------------|------------|
| TITLE: MINIATURE MONITOR SPEAKER |                    | REV: A     |
| PART NO. CMS0231KLX              | UNITS: MM [INCHES] |            |
| DRAWN BY: ZRJ                    | APPROVED BY:       | SCALE: 3:1 |

PC FILE NAME:  
 CMS0231KLX

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