

## SPECIFICATION SHEET

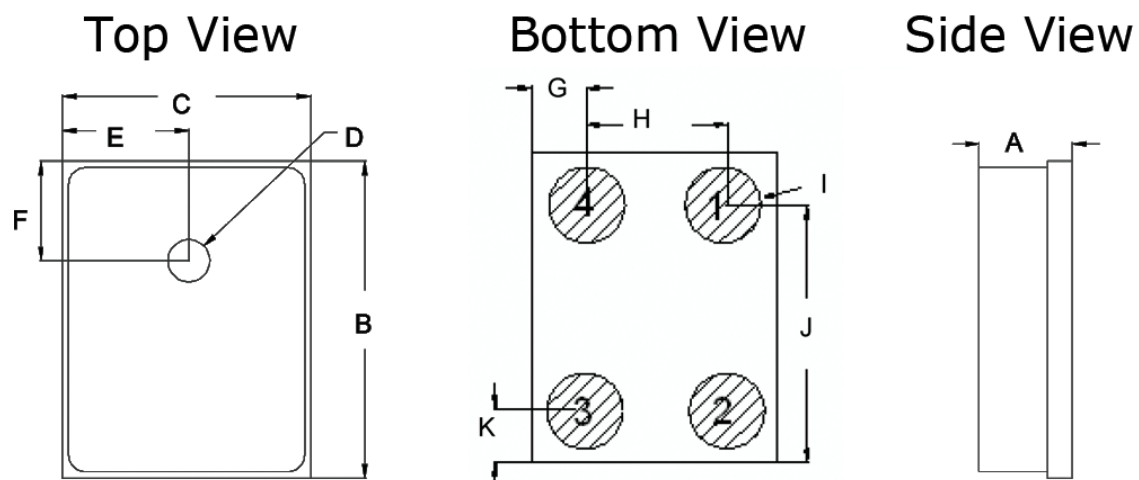
### *Product Type: Omni-Directional Microphone*

**Part No. : CSM3729**

**Electrical Specifications:**

|  |              |             |
|--|--------------|-------------|
| Operating Voltage  | V            | 1.5 ~ 3.6   |
| Rated Voltage  | V            | 2.1         |
| Current Consumption  | uA           | 200         |
| Output Impedance (1kHz)  | $\Omega$     | 100         |
| Frequency Range  | H $\zeta$    | 100 ~ 7000  |
| Sensitivity<br>(1KHz, S.P.L=1Pa, 0dB=1V/Pa)                                    | dB           | -42 $\pm$ 3 |
| Filtering Capacitor  | pF           | 10 & 33     |
| Operating Temperature  | $^{\circ}$ C | -40 ~ 100   |
| Storage Temperature  | $^{\circ}$ C | -40 ~ 125   |
| Signal to Noise Ratio (S/N)<br>S: (f=1KHz, S.P.L=1Pa)<br>N: (A-Weighted curve) | dB           | Max. 57     |
| Maximum input S.P.L<br>(f=1KHz, THD < 1%)                                      | dB           | Max. 110    |

**Mechanical Schematics:**



*all dimensions are in mm*

*Tolerance:  $\pm$  0.3 mm*

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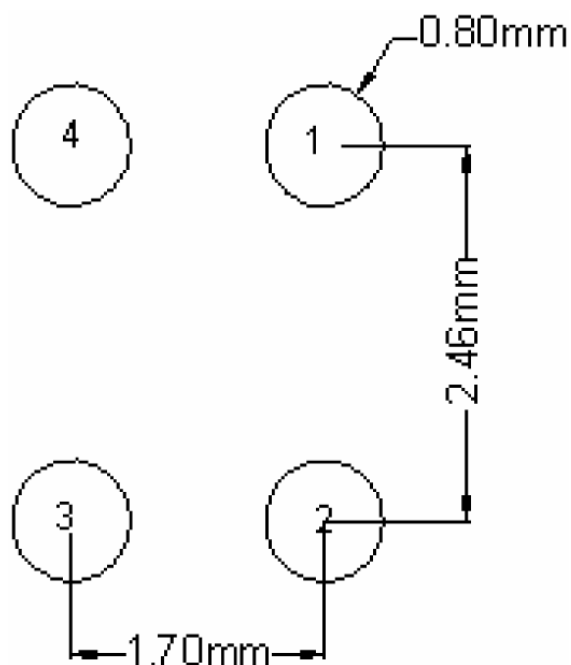
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| Item                                      | Symbols | Dimension (mm) |         |         |
|---|---------|----------------|---------|---------|
|   |         | Minimum        | Nominal | Maximum |
| Height                                    | A       | 1.00           | 1.10    | 1.20    |
| Length                                    | B       | 3.66           | 3.76    | 3.86    |
| Width                                     | C       | 2.85           | 2.95    | 3.05    |
| Acoustic Port Hole Diameter               | D       | 0.40           | 0.50    | 0.60    |
| Short Edge to Centre of Acoustic Port     | E       | 1.40           | 1.50    | 1.60    |
| Long Edge to Centre of Acoustic Port      | F       | 1.08           | 1.18    | 1.28    |
| Short Edge to Pad 3 centre                | G       | 0.55           | 0.65    | 0.75    |
| Short Edge to Centre to centre of Pad 2,3 | H       | 1.60           | 1.70    | 1.80    |
| Terminal Pad 1,2,3,4 Diameter             | I       | 0.70           | 0.80    | 0.90    |
| Long Edge to Pad 2 centre                 | J       | 3.01           | 3.11    | 3.21    |
| Long Edge to Pad 4 centre                 | K       | 0.55           | 0.65    | 0.75    |

### PCB Solder Pad Layout:



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