## FEATURES

- omnidirectional
- low profile
- surface mount


## ELECTRICAL

| parameter | conditions/description | min | typ | max | units |
| :---: | :---: | :---: | :---: | :---: | :---: |
| directivity | omnidirectional |  |  |  |  |
| sensitivity (S) | at $1 \mathrm{kHz}(0 \mathrm{~dB}=1 \mathrm{~V} / \mathrm{Pa})$ | -45 | -42 | -39 | dB |
| supply voltage (VDD) |  | 1.0 | 2.0 | 10 | V |
| current consumption | $\mathrm{VDD}=2.0 \mathrm{~V}, \mathrm{RL}=2.2 \mathrm{k} \Omega$ |  |  | 0.5 | mA |
| sensitivity reduction | $\mathrm{VDD}=2.0 \sim 1.5 \mathrm{~V}$ |  |  | 3 | dB |
| frequency (f) |  | 100 |  | 10,000 | Hz |
| signal to noise ratio (S/N) | at $1 \mathrm{kHz}, \mathrm{Pin}=1 \mathrm{~Pa}$ (A-weighted) |  | 60 |  | dBA |
| total harmonic distortion (THD) | at $94 \mathrm{~dB} \mathrm{SPL}, 1 \mathrm{kHz}$ <br> at 115 dB SPL, 1 kHz |  |  | $\begin{aligned} & 1 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \% \\ & \% \end{aligned}$ |
| acoustic overload point (AOP) | at 1 kHz |  |  | 115 | dB SPL |
| output impedance (Zout) | at 1 kHz |  |  | 2.2 | $\mathrm{k} \Omega$ |

Notes: 1. All specifications measured at $20 \pm 2^{\circ} \mathrm{C}$, humidity at $60 \sim 70 \%$, unless otherwise noted.
ENVIRONMENTAL

| parameter | conditions/description | min | typ | max |
| :--- | :--- | :--- | :---: | :---: |
| operating temperature |  | -40 | units |  |
| storage temperature |  | -40 | 70 | ${ }^{\circ} \mathrm{C}$ |
| operating humidity | non-condensing | 30 | 85 |  |
| storage humidity | non-condensing | 30 | 85 |  |
| RoHS | yes |  | $\%$ |  |

## MECHANICAL

| parameter | conditions/description | min | typ |
| :--- | :--- | :--- | :---: |
| dimensions | $\varnothing 4.0 \times 1.3$ | max | units |
| acoustic port | top |  |  |
| terminals | surface mount | 0.07 |  |
| weight |  |  |  |

## MECHANICAL DRAWING

units: mm
tolerance: $\pm 0.2 \mathrm{~mm}$

| TERMINAL CONNECTIONS |  |
| :---: | :---: |
| TERM. | FUNCTION |
| 1 | Output (+) |
| 2 | GND (-) |



## FREQUENCY RESPONSE CURVE



## APPLICATION CIRCUIT



## SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
| :--- | :--- | :--- | :--- | :---: | :---: |
| reflow soldering | see reflow profile | 255 | 260 | ${ }^{\circ} \mathrm{C}$ |  |

Note: 1. Vacuuming over acoustical hole is not allowed.
. Not suitable for wash process
3. Not recommended to exceed 2 reflow cycles.


## PACKAGING

| parameter | conditions/description | min | typ | max |
| :--- | :--- | :--- | :--- | :--- |
| reel size | $\emptyset 330 \mathrm{~mm} \mathrm{max}$ |  |  |  |
| reel QTY | $4,000 \mathrm{pcs}$ per reel |  |  |  |



## REVISION HISTORY

| rev. | description | date |
| :---: | :---: | :---: |
| 1.0 | initial release | $06 / 07 / 2019$ |
| 1.01 | brand update | $01 / 16 / 2020$ |
| 1.02 | updated packaging | $06 / 29 / 2021$ |

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

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