SMD Piezoelectric Sounders for Consumer & Healthcare

PKMCS0909E Series
PKMCS0909E4000-R1

PKLCS1212E Series
PKLCS1212E2000-R1
PKLCS1212E2400-R1
PKLCS1212E4001-R1

Application

➢ Consumer
White goods, Mobile printer, Portable device etc.

➢ Healthcare
Blood glucose meter, Thermometer etc.

Features

➢ Stable electrical performance
Quite stable electrical performance after reflow soldering.

➢ Small, thin and lightweight
PKMCS0909E Series: 9 × 9 × 1.9 mm, 170mg
PKLCS1212E Series: 12 × 12 × 3 mm, 360mg

➢ Low Power Consumption
Lower power consumption by higher impedance at operating frequency can preserve longer battery life. (0.3 to 0.5mA@3Vo-p)

➢ No magnetic noise
There is no electrical noise because of no magnet and/or coil in structure.

➢ Easy-to-hear sound for the elderly
The elderly can hear clearly because of fundamental frequency under 2.5kHz. (PKLCS1212E2000-R1, PKLCS1212E2400-R1)

SPL-Frequency Characteristics (Typical Data)

PKMCS0909E4000-R1

PKLCS1212E2000-R1

PKLCS1212E2400-R1

PKLCS1212E4001-R1

Structure (PKMCS0909E4000-R1)

Cover
Insulating Adhesive
Conductive Adhesive
Sealing Material
Piezoelectric Diaphragms
Case
### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>PKMCS0909E4000-R1</th>
<th>PKLCS1212E2000-R1</th>
<th>PKLCS1212E2400-R1</th>
<th>PKLCS1212E4001-R1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>4.0kHz</td>
<td>2.0kHz</td>
<td>2.4kHz</td>
<td>4.0kHz</td>
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<tr>
<td>Sound Pressure Level</td>
<td>72dB (typ.)</td>
<td>76dB (typ.)</td>
<td>80dB (typ.)</td>
<td>84dB (typ.)</td>
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<tr>
<td>Measure Condition</td>
<td>±1.5Vo-p, Square wave, 10cm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum input voltage</td>
<td>±12.5 Vo-p max.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 ~ +85 °C</td>
<td>-20 ~ +70 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 ~ +85 °C</td>
<td>-30 ~ +80 °C</td>
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<td></td>
</tr>
<tr>
<td>Drive Type</td>
<td>External Drive</td>
<td></td>
<td></td>
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</tbody>
</table>

*PKLCS series(1.2×1.2×3.0 mm) has a lineup of high reliability design for Automotive application.

*Please refer to below link or QR code for more details.

**Piezoelectric Sounders / Buzzers**


"my Murata" Sound Components site Exclusive Contents


Six reasons why Murata's SMD sounders are selected


### Dimension, Standard Land Pattern Dimensions (in mm, Tol.: ±0.2mm)

#### PKMCS0909E4000-R1

![Diagram](image1)

(Note) The location of Sound Emitting hole is not specified.

#### PKLCS1212E4001-R1

![Diagram](image2)

#### PKLCS1212E2000-R1

![Diagram](image3)

#### PKLCS1212E2400-R1

![Diagram](image4)