SMD Piezoelectric Sounders for Consumer & Healthcare

PKMCS0909E4000-R1
PKLCS1212E4001-R1

Application

➢ Consumer
White goods, Mobile printer, Handy payment terminal, Smart Tag, DSC, Wearable devices etc.

➢ Healthcare
Blood glucose meter, Thermometer etc.

Features

➢ Stable electrical performance
Quite stable electrical performance after reflow soldering

➢ Small, thin and lightweight
PKMCS0909E4000-R1: 9 × 9 × 1.9 mm, 170mg
PKLCS1212E4001-R1: 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.

SPL-Frequency Characteristics (Typical Data)

PKMCS0909E4000-R1
PKLCS1212E4001-R1

Product specifications are as of June 2020. They are subject to change without notice.
### Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>PKMCS0909E4000-R1</th>
<th>PKLCS1212E4001-R1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Pressure Level</td>
<td>72dB (typ.)</td>
<td>84dB (typ.)</td>
</tr>
<tr>
<td>Frequency</td>
<td>4kHz</td>
<td></td>
</tr>
<tr>
<td>Measure Condition</td>
<td>±1.5Vo-p, square wave, 10cm</td>
<td></td>
</tr>
<tr>
<td>Maximum input voltage</td>
<td>±12.5 Vo-p max.</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85 °C</td>
<td>-20 to +70 °C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40 to +85 °C</td>
<td>-30 to +80 °C</td>
</tr>
<tr>
<td>Drive Type</td>
<td>External Drive</td>
<td></td>
</tr>
</tbody>
</table>

*PKLCS series (1.2×1.2×3.0 mm) has a lineup of Frequency ratings of 20kHz and 2.4kHz.
- 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
https://my.murata.com/en/web/sound/members/mymurataexclusivecontentslist

Six reasons why Murata's SMD sounders are selected

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

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