SMD Piezoelectric Sounders
for Automotive & Industrial/Security

PKLCS1212E Series
PKLCS1212E24A0-R1
PKLCS1212E40A1-R1

PKMCS1818E Series
PKMCS1818E20A0-R1

Application

• Parking Assist System
• Power slide door
• Warning Alarm
• Electric key etc.

Features

➢ Wide Operational Temperature Range
PKLCS1212E Series: -40 to +85 ˚C
PKMCS1818E Series: -40 to +105 ˚C

➢ Stable electrical performance
Quite stable electrical performance after reflow soldering

➢ Small, thin and lightweight
PKLCS1212E Series: 12×12×3mm, 360mg
PKMCS1818E Series: 18×18×8mm, 950mg

➢ High SPL
PKLCS1212E Series: 80 to 84dB(Typ.)
PKMCS1818E Series: 100dB(Typ.)

➢ Low Power Consumption
Lower power consumption by higher impedance at operating frequency can preserve longer battery life
(0.4 to 0.5mA@3Vo ※reference value)

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

SPL-Frequency Characteristics (Typical Data)

PKLCS1212E24A0-R1
PKLCS1212E40A1-R1
PKMCS1818E20A0-R1
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>PKLCS1212E24A0-R1</th>
<th>PKLCS1212E40A1-R1</th>
<th>PKMCS1818E20A0-R1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>2.4kHz</td>
<td>4.0kHz</td>
<td>2.0kHz</td>
</tr>
<tr>
<td><strong>Sound Pressure Level</strong></td>
<td>80dB (typ.)</td>
<td>84dB (typ.)</td>
<td>100dB (typ.)</td>
</tr>
<tr>
<td><strong>Measurement Condition</strong></td>
<td>±1.5Vo-p, square wave, 10cm</td>
<td>12Vo-p, square wave, 10cm</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum input voltage</strong></td>
<td>±12.5Vo-p max.</td>
<td>18.0Vo-p [with polarity]</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-40 to +85 °C</td>
<td>-40 to 105 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Temperature Range</strong></td>
<td>-40 to +85 °C</td>
<td>-40 to 105 °C</td>
<td></td>
</tr>
<tr>
<td><strong>Drive Type</strong></td>
<td></td>
<td></td>
<td>External Drive</td>
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</table>

*PKLCS series (1.2×1.2×3.0 mm) also has a lineup of -Frequency rating of 2.0kHz.
-For Consumer usage.

*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)

![Dimension Diagram](image)

(Note) The location of open hole is not specified.