

SMD Piezoelectric Sounders for Consumer & Healthcare



PKMCS0909E Series	PKLCS1212E Series		
 PKMCS0909E4000-R1	 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)

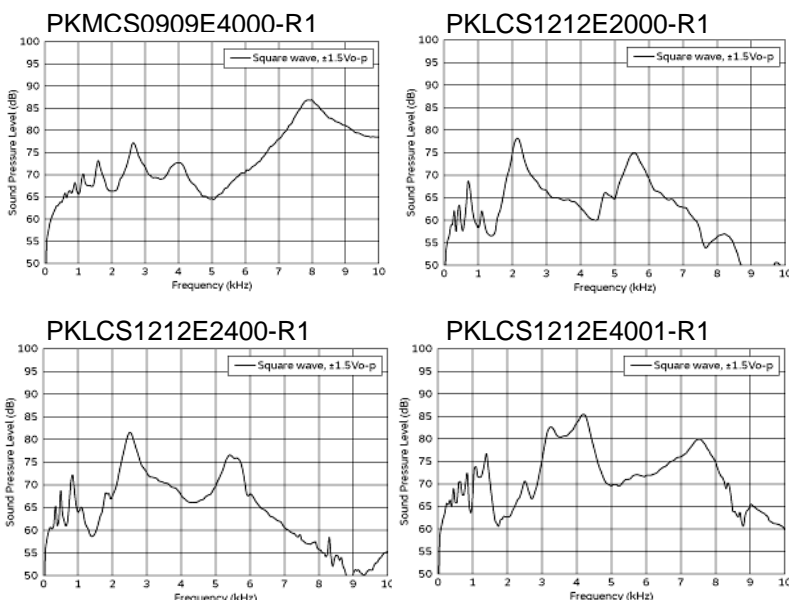
➤ No magnetic noise

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

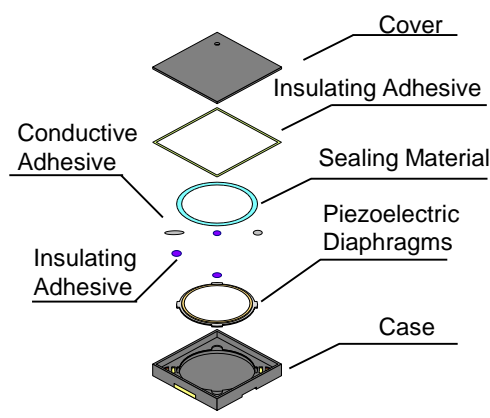
➤ Easy-to-hear sound for the elderly

The elderly can hear wave clearly because of fundamental frequency under 2.5kHz. (PKLCS1212E2000-R1, PKLCS1212E2400-R1)

SPL-Frequency Characteristics (Typical Data)



Structure (PKMCS0909E4000-R1)



Specifications

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

*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

<http://www.murata.com/en-global/products/sound/sounder>



"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

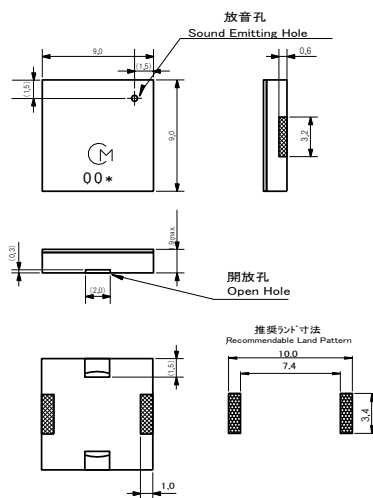
<http://www.murata.com/en-global/products/sound/sounder/smdsounder>



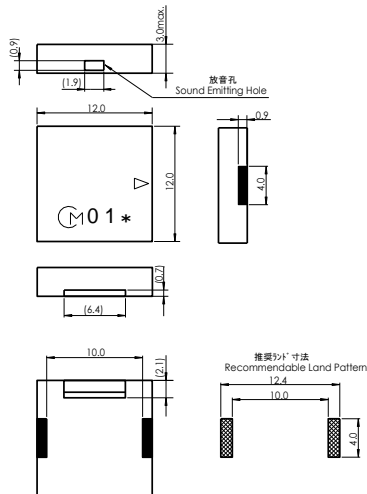
Dimension, Standard Land Pattern Dimensions

(in mm, Tol.: ±0.2mm)

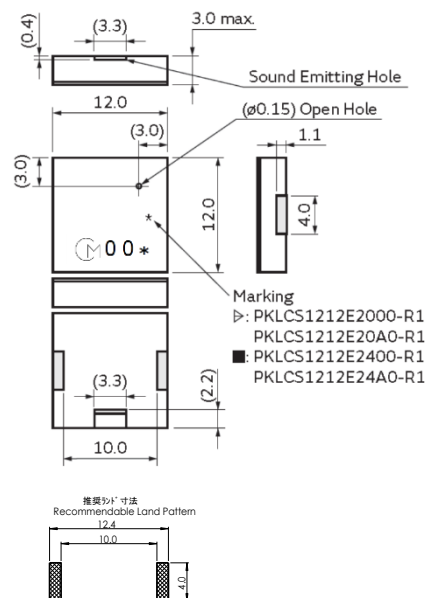
PKMCS0909E4000-R1



PKLCS1212E4001-R1



PKLCS1212E2000-R1
PKLCS1212E2400-R1



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