

# Piezoelectric Sound Components

## Piezoelectric Sounders External Drive SMD Type

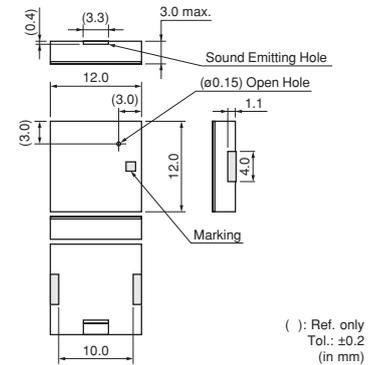
Taking advantage of extensive acoustic and mechanical design technology and high performance ceramics, Murata has developed SMD piezoelectric sounders that suit the thin, high-density design of electronic equipment.

### ■ Features

1. Small, thin and lightweight
2. High sound pressure level and clear sound
3. Reflowable
4. Tape & Reel supply



PKLCS1212E2400-R1  
PKLCS1212E24A0-R1

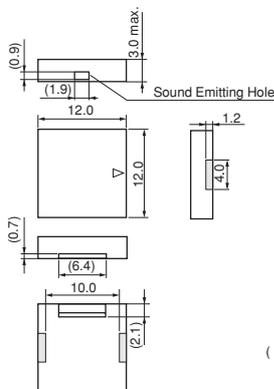


(Note) The location of open hole is not specified.

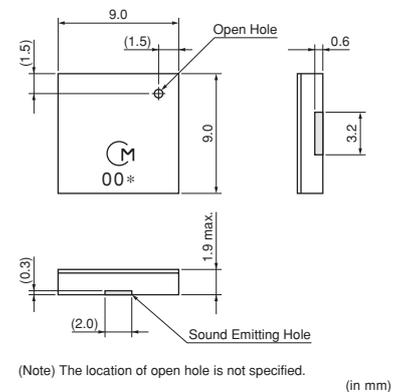
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PKLCS1212E4001-R1  
PKLCS1212E40A1-R1



PKMCS0909E4000-R1



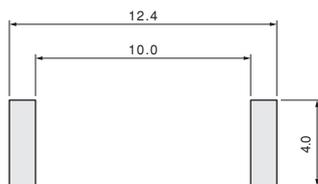
(Note) The location of open hole is not specified.

(in mm)

Part Number	Sound Pressure Level (dB)	Operating Voltage Range	Operating Temp. Range (°C)	Storage Temp. Range (°C)	Use
PKLCS1212E2400-R1	75 min.[±1.5 Vo-p,2.4kHz,square wave,10cm]	±12.5 Vo-p max.	-20 to +70	-30 to +80	For consumer electronics
PKLCS1212E24A0-R1	75 min.[±1.5 Vo-p,2.4kHz,square wave,10cm]	±12.5 Vo-p max.	-40 to +85	-40 to +85	For automotive electronics
PKLCS1212E4001-R1	75 min.[3Vp-p,4kHz,square wave,10cm]	25 Vp-p max.	-20 to +70	-30 to +80	For consumer electronics
PKLCS1212E40A1-R1	75 min.[3Vp-p,4kHz,square wave,10cm]	25 Vp-p max.	-40 to +85	-40 to +85	For automotive electronics
PKMCS0909E4000-R1	65 min.[±1.5 Vo-p,4kHz,square wave,10cm]	±12.5 Vo-p max.	-40 to +85	-40 to +85	For consumer electronics

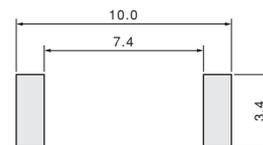
### ■ Standard Land Pattern Dimensions

PKLCS Series



(in mm)

PKMCS Series



(in mm)