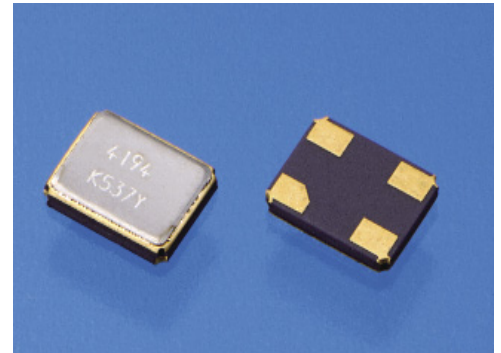


Miniature low frequency quartz crystal unit CX3225SB series

CX3225SB series is miniature low frequency quartz crystal unit sized $3.2 \times 2.5 \times 0.55\text{mm}$, and realizing low frequency of $3.5\text{MHz} \sim 5\text{MHz}$. Adopting the Lame mode oscillation, largely realizing a miniaturized quartz crystal unit and low-frequency, making CX3225SB series the world smallest class in 4MHz range. CX3225SB series provides stable frequency source and is suitable for compact tuners and handheld devices which require downsizing and low power consumption.



Features

- 1) The world smallest class in $3.5\text{MHz} \sim 5\text{MHz}$
 - Adopted Lame mode oscillation.
 - Available $3.5\text{MHz} \sim 5\text{MHz}$ frequency range with miniature sized and low profile.
($3.2 \times 2.5 \times 0.55\text{mm}$)
 - Comparison with our conventional products with the same frequency is as follows.

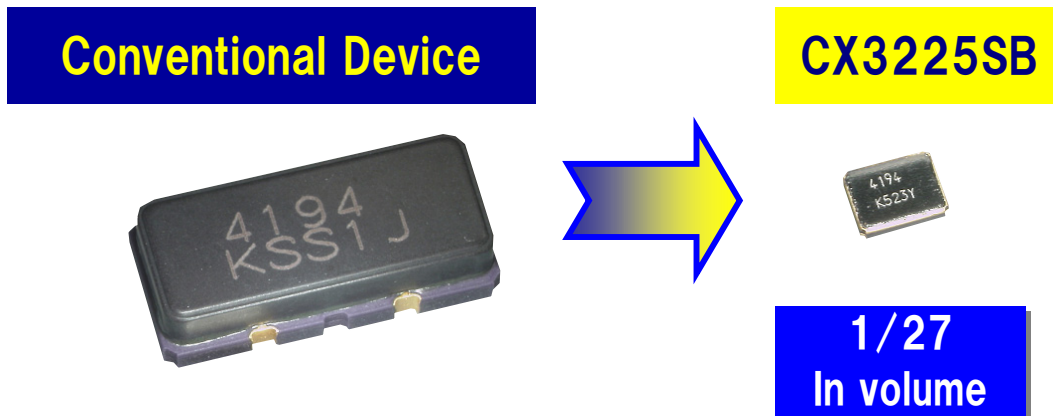
1/27 in volume	1/27	(0.004cc)
1/3 in height	1/3	(0.55mm)
1/18 in weight	1/18	(0.02g)

- 2) Suitable for devices which require low power consumption because of “low frequency”.
 - Reduction of load of frequency division by using the low frequency range of $3.5\text{MHz} \sim 5\text{MHz}$ low frequency.
 - It realizes 30% power consumption reduction in comparison with 16MHz component.
 - It provides stable frequency source and is suitable for compact tuners and handheld devices which requires down sizing and low power consumption.

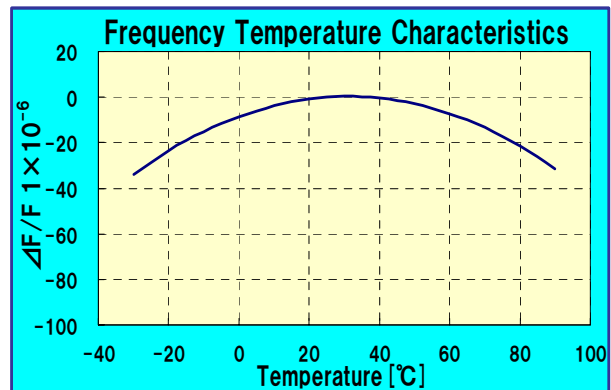
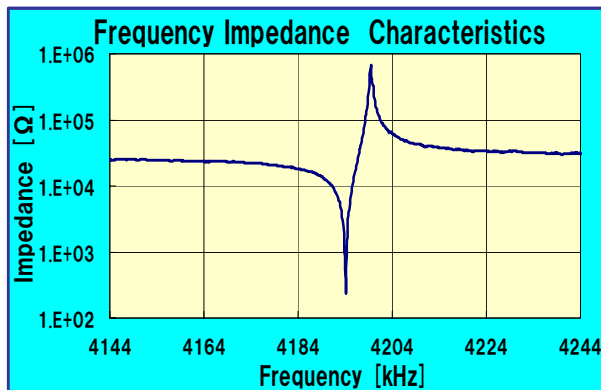
- 3) In compliant with Restriction of Hazardous Substances (RoHS)
 - Lead free component in compliant with RoHS.
 - Compatible with reflow profiles for lead free soldering.

Product Overview

In order to realize well-miniaturized devices with low frequency, CX3225SB adopted the Lamé mode oscillations instead of commonly used oscillation mode of AT-cut thickness shear oscillation. The CX3225SB series provides stable frequency source and suitable for compact tuners and handheld devices which require down sizing and low power consumption.



Miniature-sized quartz crystal characteristics



Specifications

Items	Specifications
Frequency range	3.5MHz ~ 5.0MHz
Frequency tolerance (at 25°C)	$\pm 30 \times 10^{-6}$
Frequency tolerance (Over the oper. temp. range)	$+10 \times 10^{-6} \sim -50 \times 10^{-6}$ (referred to 25°C)
Motional series resistance	150ohm MAX ~ 500ohm Maximum
Level of drive	10 μ W Maximum
Load capacitance	8pF ※
Operating temperature range	-10 ~ +70°C
Storage temperature range	-40 ~ +85°C

※ Please contact us for other load capacitance value.

Dimensions

