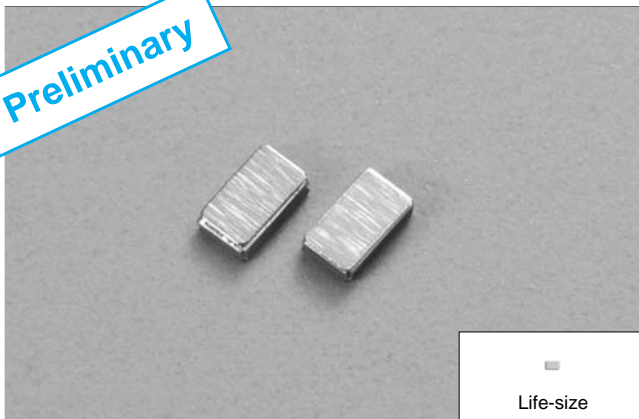


Tape & Reel 3Kpcs



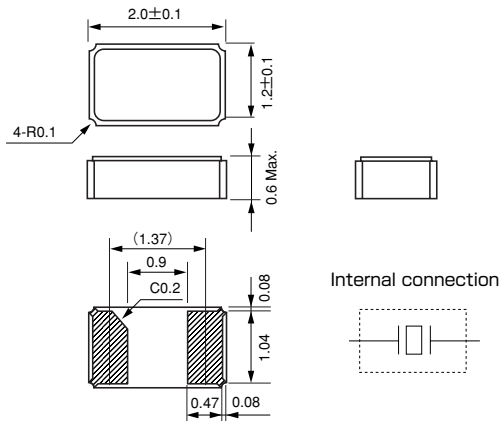
Preliminary



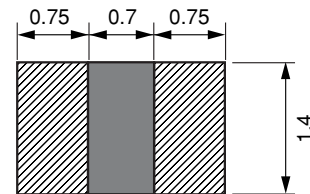
### ◆ Features

- Tuning fork crystal with ceramic packaged type.
- High-density SMD type  
Ultra-light weight with ultra-miniature packaging.  
High-stability assured with tight vacuum sealing.
- Most appropriate for portable devices and mobile telecommunications devices.
- Complete Pb free product.

### ◆ Dimensions (mm)



### ◆ Solder pad layout (mm)



\* Do not design any patterns on shaded area.

### ◆ Standard Specifications

Part Numbering system is in Page 14, [click here](#)

Item	Model	MXC212	Conditions
Nominal Frequency	$f_0$	32.768KHz	
Frequency Tolerance	$\Delta f/f_0$	±30ppm	at 25°
Load capacitance	$C_L$	12.5 pF	Need to specify your requirement
Operating Temperature Range	$T_{OPR}$	-40°C~+85°C	
Storage Temperature Range	$T_{STR}$	-55°C~+125°C	
Turnover Temperature	$T_M$	25°C±5°C	
Temperature Coefficient	$\beta$	-0.034±0.006ppm/°C <sup>2</sup>	
Motional (series) resistance	$R_1$	75K $\Omega$ Max.	at 25°C
Level of drive	$D_L$	0.5 $\mu$ W Max.	
Aging (first year)	$\Delta f/f_0$	±30ppm Max.	

## MDX codification 32,768 KHz Crystals (Part Numbering System)



Case	Frequency code	Tolerance at 25°C (ppm)	Load capacitance	Packing Specification
MFS206	- 32	D	F	T
↓	↓	↓	↓	↓
<b>MFS206</b> <b>MXC200T</b> <b>MXC206J</b> <b>MXC200S</b> <b>MXC519</b> <b>MXC415</b> <b>MXC315</b> <b>MXC212</b>	<b>32,768 KHz</b>	<b>D = +/- 20 ppm</b> <b>F = +/- 15 ppm</b> <b>E = +/- 10 ppm</b> <b>H = +/- 5 ppm</b>	<b>A = Series</b> <b>B = 6.0pF</b> <b>C = 9.0pF (STD)</b> <b>D = 9.5pF</b> <b>E = 12.0pF</b> <b>F = 12.5pF (STD)</b> <b>G = 13.0pF</b> <b>Q = 10.0pF</b> <b>S = 11.0pF</b> <b>V = 8.0pF</b> <b>Y = 7.0pF</b> <b>Z = Others</b>	<b>T = Tape &amp; Reel</b> <b>B = Bulk</b>