

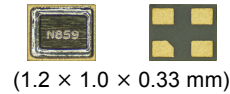
# SMD Crystal Unit

1.2 x 1.0 mm / 32 ~ 80 MHz

NEW PRODUCT  
**FCX-08**

## FEATURES

- The world's smallest, 1210 size AT-cut 32 ~ 80 MHz crystal unit
- Frequency tolerance of  $\pm 7$  ppm (@25°C) available
- Wide operating temperature range of -40 ~ +125°C available
- Robust ceramic package with metal lid sealed by electron beam
- Specifications in conformity with AEC-Q200 available on request



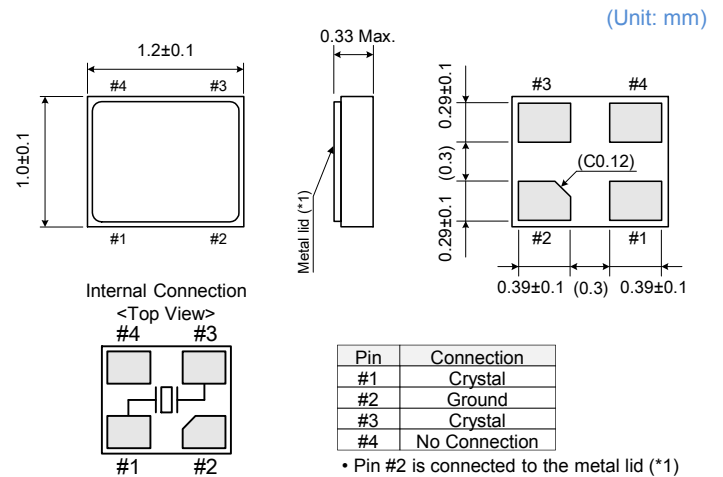
## APPLICATIONS

- Car audio systems / car GPS units / remote keyless entry / dash cameras
- Smartphones / wireless-modules / wearable devices

## STANDARD SPECIFICATIONS

Item	Specifications	Conditions / Remarks
Nominal frequency	32.000 ~ 80.000 MHz	-
Overtone order	Fundamental	-
Frequency tolerance	$\pm 7$ ppm ~	@25°C See below for more options
Equivalent series resistance (E.S.R.)	100 $\Omega$ Max.	32 MHz to 33 MHz
	80 $\Omega$ Max.	33 MHz to 37 MHz
	60 $\Omega$ Max.	37 MHz to 80 MHz
Storage temperature	-55 ~ +125°C	-
Operating temperature	-40 ~ +85°C -40 ~ +125°C	See below for more options
Frequency/temperature characteristics	$\pm 10$ ppm (-30 ~ +85°C) $\pm 50$ ppm (-40 ~ +125°C)	Refer to 25°C See below for more options
Load capacitance	5.0 pF ~	Please specify
Drive level	100 $\mu$ W Max.	-
Tape and reel	5000 pcs/reel	Reel diameter: $\varnothing$ 180 mm

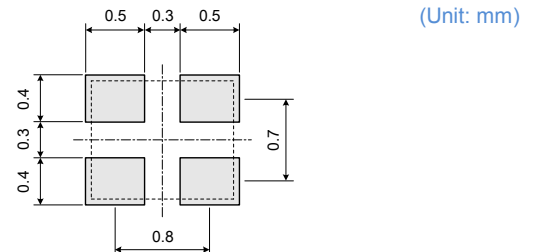
## OUTLINE DIMENSIONS



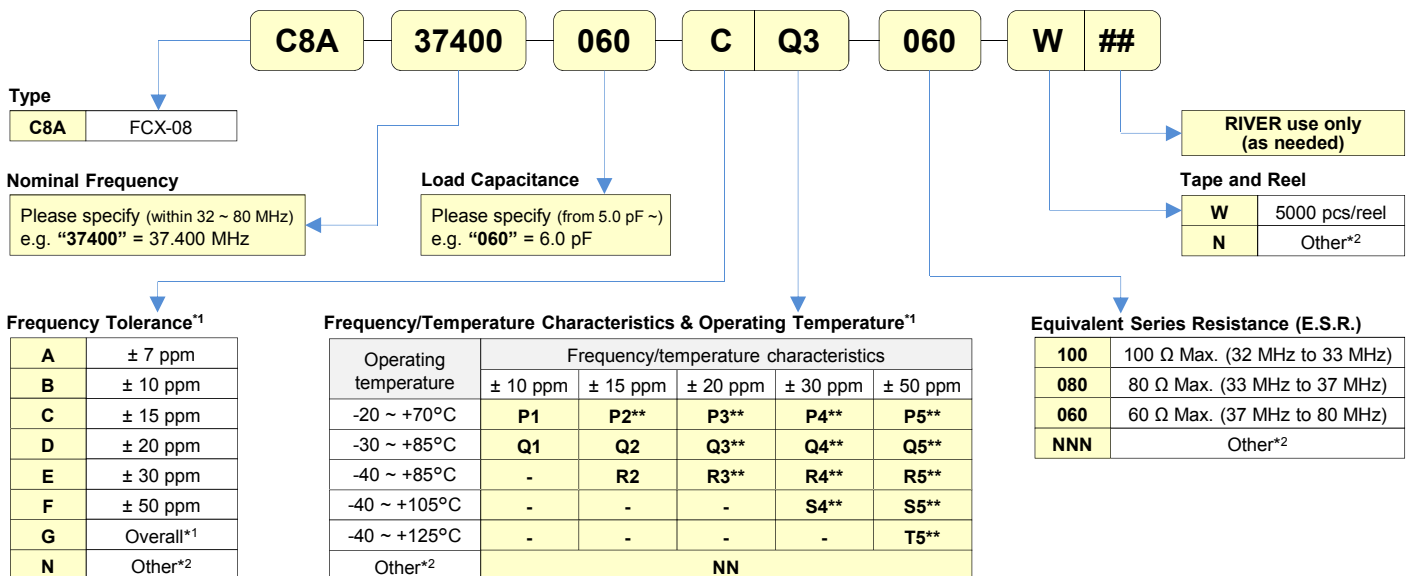
## GENERAL NOTES

- Certain combinations of standard options may be classified as high-spec models.
- Please consult us for specifications that do not match the standard specifications.
- The information in this document is subject to change without notice.

## RECOMMENDED LAND PATTERN



## ORDERING NUMBER GUIDE



\*1. For overall frequency stability inclusive of stability at 25°C and an operating temp. range, please select "G (Overall)" from the table "Frequency Tolerance" followed by a code that is with "\*" from the table "Freq./Temp. Characteristics & Operating Temp.". (e.g. GP2 = Overall  $\pm 15$  ppm (-20 ~ +70°C))

\*2. Please consult us for your requirements.