

SMD Crystal Unit

1.6 mm x 1.2 mm / 24 MHz to 80 MHz

FCX-07L

FEATURES

- 1612 size, AT-cut crystal unit (24 MHz to 80 MHz)
- Low profile of 0.33 mm Max.
- Frequency tolerance of ± 7 ppm (@25 °C) available
- Wide operating temperature range of -40 °C to +125 °C available
- Robust ceramic package with metal lid sealed by electron beam
- Specifications in conformity with AEC-Q200 available on request



(1.6 × 1.2 × 0.33 mm)



APPLICATIONS

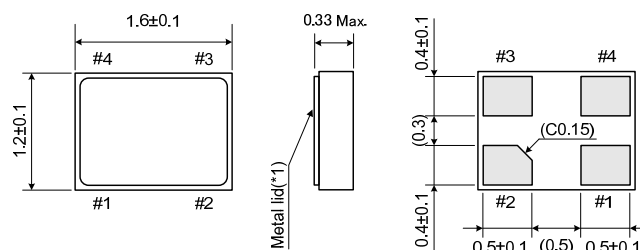
- Small wireless-modules, Wearable devices, Hearable devices, and others
- Smartphones, Medical and Healthcare devices, Automotive electronics, and others

STANDARD SPECIFICATIONS

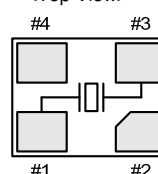
Item	Specifications	Unit	Conditions (Remarks)
Nominal frequency	24 to 80	MHz	-
Overtone order	Fundamental	-	-
Frequency tolerance	± 7	ppm	@25 °C (See below for more options)
Equivalent series resistance (Max.)	150	Ω	24 MHz to 26 MHz
	100	Ω	26 MHz to 32 MHz
	60	Ω	32 MHz to 50 MHz
	50	Ω	50 MHz to 80 MHz
Storage temperature	-55 to +125	°C	-
Operating temperature	-40 to +85	°C	(See below for more options)
	-40 to +125	°C	
Frequency / temperature characteristics	± 10 (-30 °C to +85 °C)	ppm	Refer to 25 °C (See below for more options)
	± 50 (-40 °C to +125 °C)	ppm	
Load capacitance	5	pF	(Please specify)
Drive level (Max.)	100	μ W	-
Tape and reel	3000, 5000	pcs/reel	Reel diameter: ϕ 180 mm

OUTLINE DIMENSIONS

(Unit: mm)



Internal Connection
<Top View>

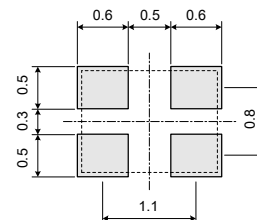


Pin	Connection
#1	Crystal
#2	Ground
#3	Crystal
#4	No Connection

• Pin #2 is connected to the metal lid (*1)

RECOMMENDED LAND PATTERN

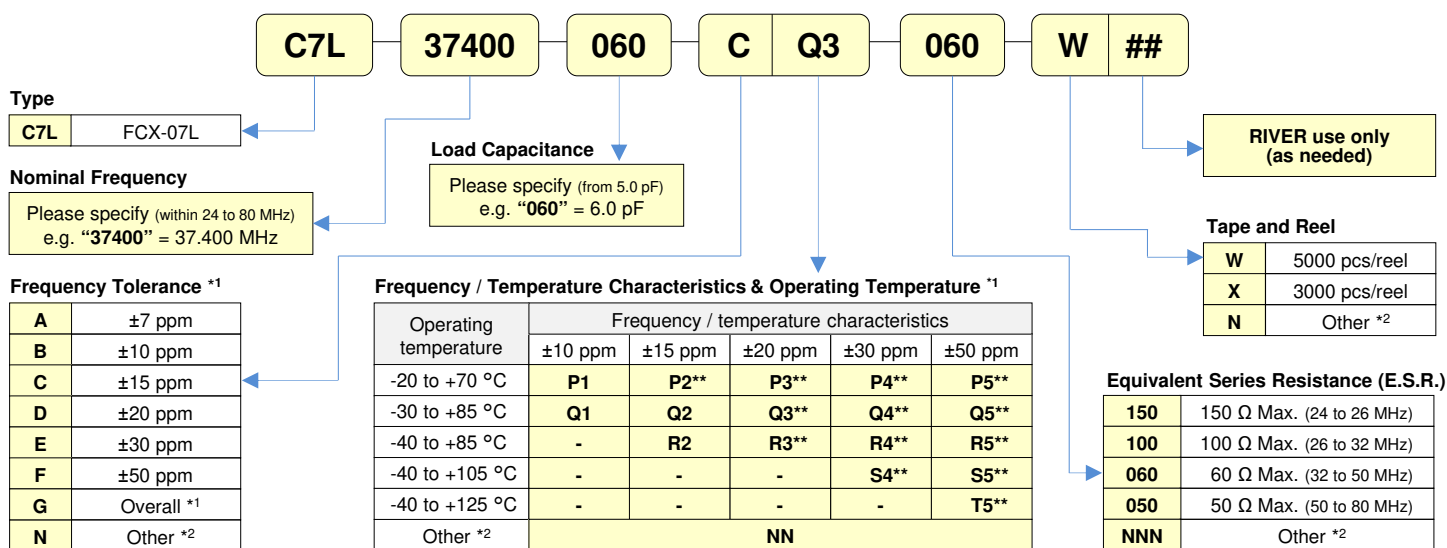
(Unit: mm)



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.

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 ± 15 ppm (-20 to +70 °C))

*2. Please consult us for your requirements.