

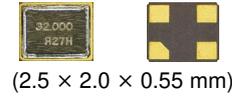
SMD Crystal Unit

2.5 mm x 2.0 mm / 12 MHz to 80 MHz

FCX-05

FEATURES

- 2520 size AT-cut crystal unit (12 MHz to 80 MHz)
- Frequency tolerance of ± 7 ppm (@25 °C) available
- Wide operating temperature range of -40 °C to +125 °C available
- High pulling-sensitivity
- Robust ceramic package with metal lid sealed by electron beam
- Specifications in conformity with AEC-Q200 available on request



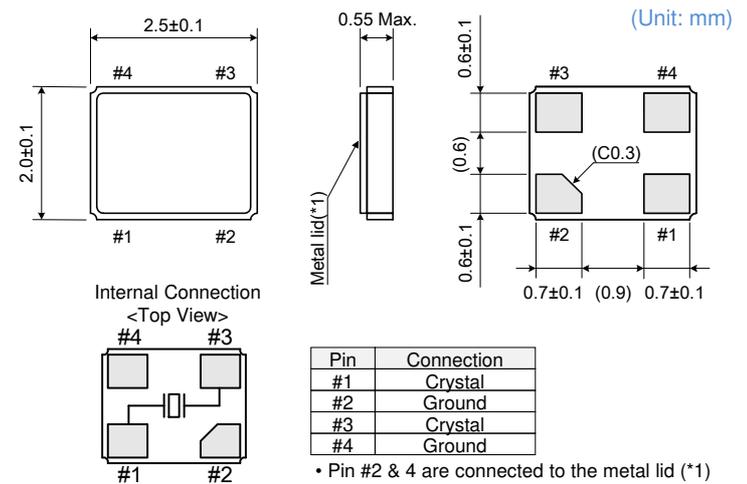
APPLICATIONS

- Car audio systems / car GPS units / remote keyless entry / dash cameras

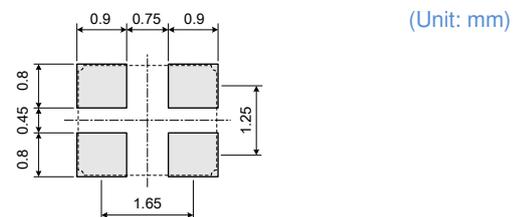
STANDARD SPECIFICATIONS

| Item | Specifications | Unit | Conditions (Remarks) |
|---|---|----------|--|
| Nominal frequency | 12 to 80 | MHz | - |
| Overtone order | Fundamental | - | - |
| Frequency tolerance | ± 7 | ppm | @25 °C (See below for more options) |
| Equivalent series resistance (Max.) | 150 | Ω | 12 MHz to 13 MHz |
| | 100 | Ω | 13 MHz to 17 MHz |
| | 80 | Ω | 17 MHz to 23 MHz |
| | 60 | Ω | 23 MHz to 30 MHz |
| | 50 | Ω | 30 MHz to 80 MHz |
| Storage temperature | -55 to +125 | °C | - |
| Operating temperature | -40 to +85 -40 to +125 | °C | (See below for more options) |
| Frequency / temperature characteristics | ± 10 (-30 °C to +85 °C) ± 50 (-40 °C to +125 °C) | ppm | Refer to 25 °C (See below for more options) |
| Load capacitance | 5.0 | pF | (Please specify) |
| Drive level (Max.) | 200 | μ W | - |
| Tape and reel | 3000 | pcs/reel | Reel diameter: ϕ 180 mm |

OUTLINE DIMENSIONS



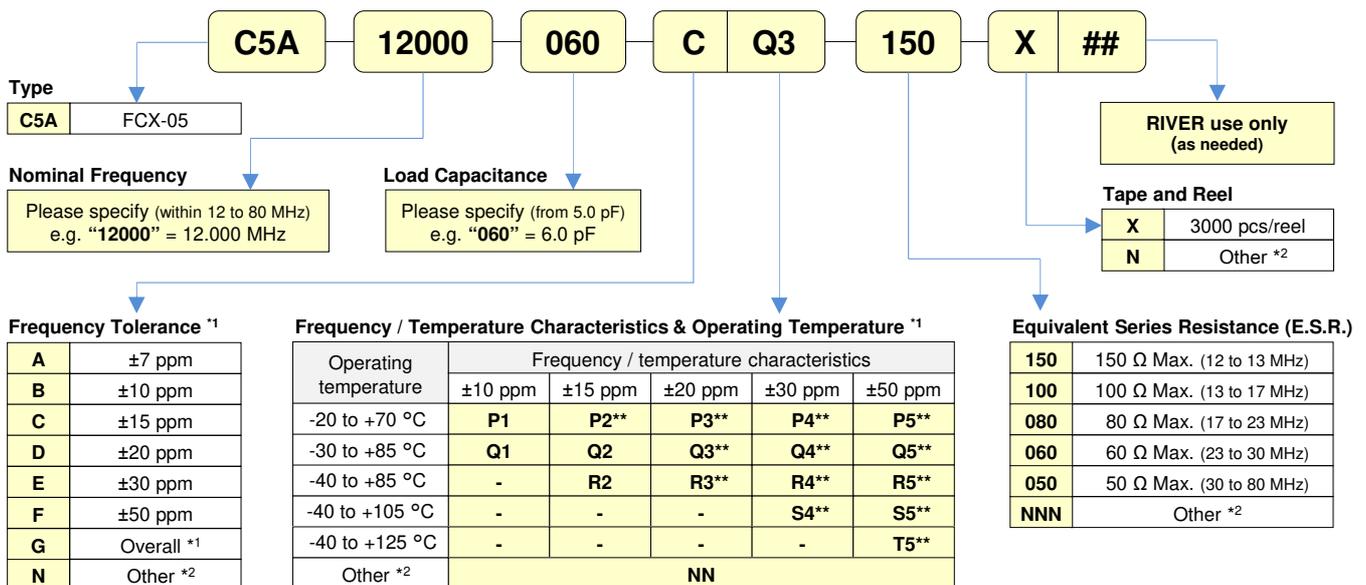
RECOMMENDED LAND PATTERN



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.

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