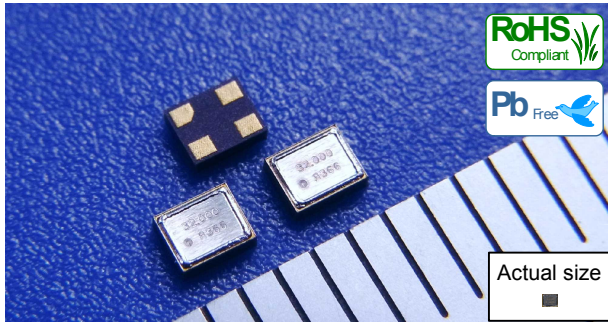


SURFACE MOUNT CRYSTAL OSCILLATOR

FCXO-06T NEW PRODUCT



Features

- Compact & lightweight design.
(2.0 mm × 1.6 mm × 0.8 mm Max., Weight: 8.6 mg)
- SPXO with highly accurate frequency.
- CMOS level output.
- Ceramic package and metal lid sealed by electron beam ensure high reliability.
- Lead-free reflow soldering is available.
- AEC-Q200 compliant spec available upon request.
- Small lot available at each frequency.

Applications

- Mobile communications, wireless modules.

Specifications & Inquiry Number

Inquiry Number Example : **X6T** - **49152** - **18** - **UQ1** - **HX##**

| | | |
|--|---|---|
| Type code | Specification code (For River only) - Only when needed | Loaded quantity(pcs.) |
| Frequency range (MHz) | Operating temperature range (°C) | 3000pcs/reel X |
| 2.000 ~ 80.000 e.g. 49.152MHz = 49152 | ±6ppm | Others N |
| Supply voltage (V) | Frequency temperature characteristics (ppm) | - Reel diameter 180 mm |
| 1.8±0.18 18 | ±8ppm | Storage temperature range (°C) |
| 2.5±0.25 25 | ±10ppm | -40 ~ 85 G |
| 3.3±0.33 33 | ±15ppm | -40 ~ 105 H |
| Others NN | Other combinations NN | Others N |
| Frequency tolerance(ppm) | | - Not applicable to packaging materials |
| ±2 M | | |
| ±5 U | | |
| ±10 B | | |
| Others N | | |

- at 25°C (-For "overall", choose "N" and contact us with your specifications.) - In reference to 25°C

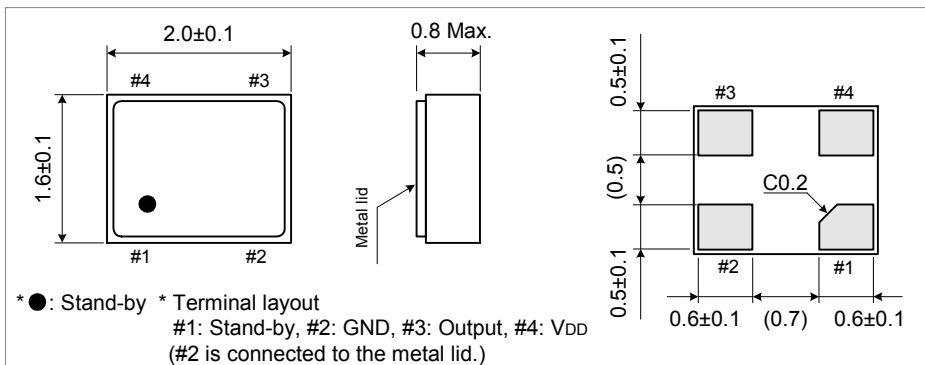
| Item | Specifications | Note |
|---|----------------------------|---|
| Current consumption during operation (mA) | 3.0 Max. | F = 40 MHz, V _{DD} = 3.0 V, No load |
| Current consumption during standby (µA) | 10 Max. | Stand-by = "L" |
| Output voltage V _{OH} (V) | V _{DD} - 0.4 Min. | I _{OH} = -4 mA |
| Output voltage V _{OL} (V) | 0.4 Max. | I _{OL} = +4 mA |
| Output load (pF) | 15 Max. | - |
| Output type | CMOS | - |
| Duty cycle (%) | 50 ± 5 | - |
| Rise time / Fall time (ns) | 5.0 Max. | 10 %V _{DD} ~ 90 %V _{DD} level |

| Item | Specifications | Note |
|--------------------------------|----------------|---|
| Startup time (ms) | 2.0 Max. | V _{DD} = 3.3 V |
| | 5.0 Max. | V _{DD} = 1.8 V |
| RJ:Random Jitter* (ps) | 3.0 typ. | V _{DD} = 3.3 V |
| TJ:Total Jitter* (ps) | 40 typ. | V _{DD} = 3.3 V, T _J = n × RJ (n ≈ 14.1, BER = 10 ⁻¹²) |
| Phase Jitter (ps) | 1.0 Max. | V _{DD} = 3.3V, Offset frequency 12kHz ~ 5MHz |
| Stand-by terminal function (V) | (High) | 0.7 V _{DD} Min. Output enable |
| | (Low) | 0.3 V _{DD} Max. Oscillation stop and High impedance output |

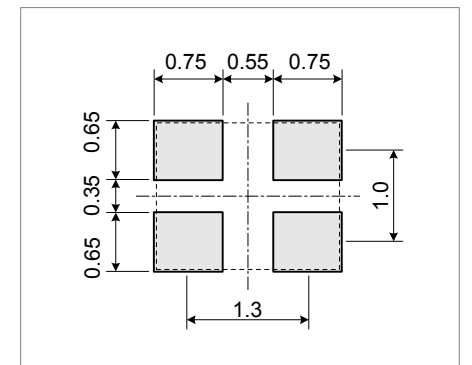
* Measured by Wave Crest 3100C.

- Blue letters for Inquiry Number, black letters for specifications.
- For operational stability, the bypass capacitor(0.01µF ~ 0.1µF) between V_{DD} and GND should be placed as close to the product as possible.
- Other specifications can be available. Please call our sales dept. or contact us via the inquiry form on our website with the Inquiry Number above.

Dimensions



Land dimensions



RIVER

RIVER ELETEC CORPORATION

URL <http://www.river-ele.co.jp>

Headquarters in Japan(Yamanashi)

TEL 81-551-22-1211 FAX 81-551-22-6645

Domestic Sales Department

Tokyo Office TEL 81-3-3377-5444 FAX 81-3-3374-2865
Osaka Office TEL 81-6-6998-4888 FAX 81-6-6998-4899

Overseas Sales Department

River Electronics Pte.Ltd.(Singapore) TEL 65-6258-7874 FAX 65-6258-7366
Taiwan River Co.,Ltd.(Chinese Taipei) TEL 886-2-8988-2811 FAX 886-2-2983-4785
Xi'an River Electronics Corp.(China) TEL 86-755-86528590 FAX 86-755-86528590