



2.0×1.6mm



AEC-Q100/200



RoHS Compliant

\*AEC-Q100 qualified (Option)

### Features

- Miniature SMD type (2.0×1.6×0.8mm)
- Freq. temp. characteristics:  
:  $\pm 2.0 \times 10^{-6}/ -30$  to  $+85^\circ\text{C}$   
:  $\pm 0.5 \times 10^{-6}/ -30$  to  $+85^\circ\text{C}$  (for GNSS)
- 1.68 to 3.63V available
- Reflow compatible
- Operating Temp.  $-40$  to  $+105^\circ\text{C}$  (Option)
- Disable Function (Option)

### Applications

- Mobile Communications, W-LAN
- Low power radio communications
- GNSS Unit

### How to Order

KT2016K 26000 □ □ □ □ □ xx  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

#### ①Series

#### ②Output Frequency

#### ③Freq. Temp. Chrst.

|   |                          |
|---|--------------------------|
| A | $\pm 0.5 \times 10^{-6}$ |
| B | $\pm 1.0 \times 10^{-6}$ |
| C | $\pm 1.5 \times 10^{-6}$ |
| D | $\pm 2.0 \times 10^{-6}$ |

#### ④Lower Operating Temp.

|   |                     |
|---|---------------------|
| C | $-30^\circ\text{C}$ |
| E | $-20^\circ\text{C}$ |
| G | $-10^\circ\text{C}$ |

#### ⑤Upper Operating Temp.

|   |                     |
|---|---------------------|
| W | $+85^\circ\text{C}$ |
| V | $+80^\circ\text{C}$ |
| U | $+75^\circ\text{C}$ |

#### ⑥Supply Voltage

|    |      |    |      |
|----|------|----|------|
| 18 | 1.8V | 28 | 2.8V |
| 30 | 3.0V | 33 | 3.3V |

#### ⑦Voltage Control Function

|             |        |
|-------------|--------|
| T           | TCXO   |
| Spec. Code* | VCTCXO |

\*Please contact us for Spec. Code.

#### ⑧Individual Specification

Packaging (Tape & Reel 15000 pcs./ reel)

### Specifications

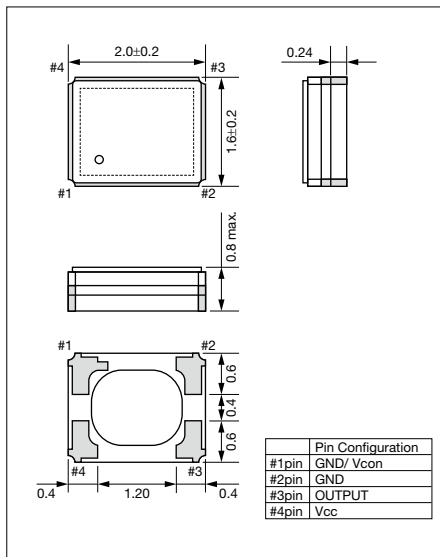
| Item                        | Symbol     | Conditions  | Min.       | Max.       | Unit             |
|-----------------------------|------------|---|------------|------------|------------------|
| Output Frequency Range      | $f_o$      | Standard Output Frequency: 19.2, 26.0, 32.0, 38.4, 48.0, 52.0 | 19.2       | 52         | MHz              |
| Frequency Tolerance         | $f_{tol}$  | vs Temperature  | $-0.5/ -2$ | $+0.5/ +2$ | $\times 10^{-6}$ |
|                             |            | vs Load   | $-0.2$     | $+0.2$     |                  |
|                             |            | vs Voltage  | $-0.2$     | $+0.2$     |                  |
| Frequency Aging             | $f_{age}$  | Per Year  | $-1$       | $+1$       | $\times 10^{-6}$ |
| Storage Temperature Range   | $T_{stg}$  |   | $-40$      | $+85$      | $^\circ\text{C}$ |
| Operating Temperature Range | $T_{use}$  |   | $-30$      | $+85$      | $^\circ\text{C}$ |
| Voltage Control Range       | $f_{cont}$ | Positive  | $\pm 8$    | $\pm 15$   | $\times 10^{-6}$ |
| Supply Voltage              | $V_{cc}$   |   | 1.68       | 3.63       | V                |
| Output Level                | $V_{pp}$   | Clipped Sine*, Load: 10k ohm // 10pF                          | 0.8        | —          | Vp-p             |
| Current Consumption         | $I_{cc}$   |   | —          | 2          | mA               |
| Harmonics                   | —          |   | —          | $-5$       | dBc              |

\*: A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor ( $\geq 1\text{nF}$ ) to the line-out terminal of the oscillator.

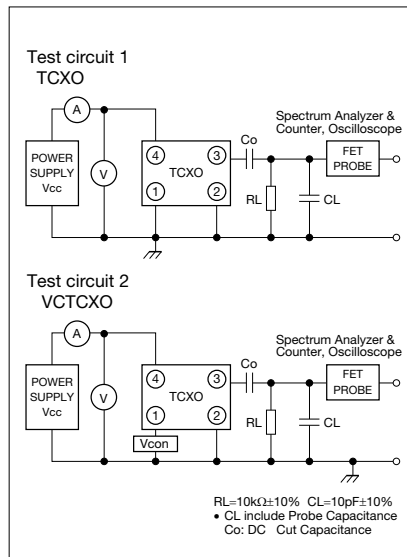
\* Please contact us for other specifications.

### Dimensions

(Unit: mm)



### Test Circuit



### Recommended Land Pattern

(Unit: mm)

