



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

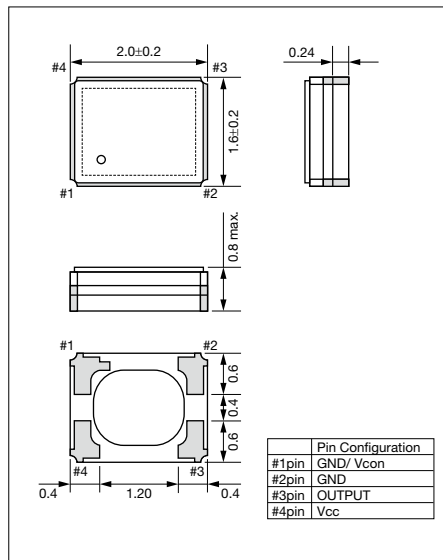
Item	Symbol	Conditions	Min.	Max.	Unit
Output Frequency Range	$f_o$	Standard Output Frequency: 19.2, 26.0, 32.0, 38.4, 48.0, 52.0	19.2	52	MHz
Frequency Tolerance	$f_{tol}$	vs Temperature	$-0.5/ -2$	$+0.5/ +2$	$\times 10^{-6}$
		vs Load	$-0.2$	$+0.2$	
		vs Voltage	$-0.2$	$+0.2$	
Frequency Aging	$f_{age}$	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.

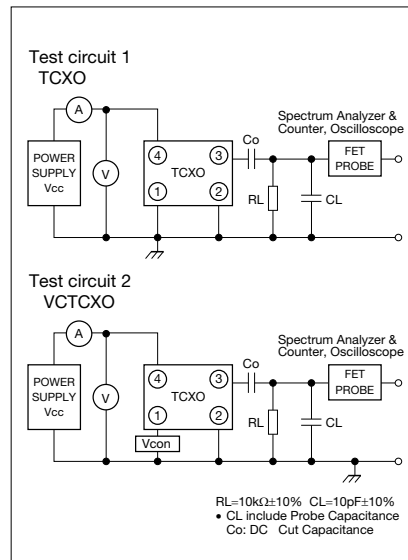
\* Please contact us for other specifications.

### Dimensions

(Unit: mm)



### Test Circuit



### Recommended Land Pattern

(Unit: mm)

