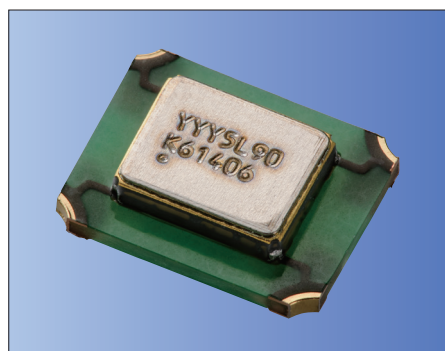




3.2×2.5mm



AEC-O100/200 **RoHS Compliant**

*AEC-O100 qualified (Option)

Features

- Miniature SMD type
(3.2×2.5×0.8mm)
- 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 drive 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

KT3225K 26000 XX
 (1) (2) (3) (4) (5) (6) (7) (8)

- ① Series
- ② Output Frequency
- ③ Freq. Temp. Chrst.

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

- ④ Lower Operating Temp.

C	-30°C
E	-20°C
G	-10°C

- ⑤ Upper Operating Temp.

W	+85°C
V	+80°C
U	+75°C

- ### ⑥ Supply Voltage

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

- ⑦ Voltage Control Function

T	TCXO
Spec. Code*	VCTCXO

*Please contact us for Spec. Code.

- ⑧ Individual Specification

Packaging (Tape & Reel 12000 pcs./ reel)

Specifications

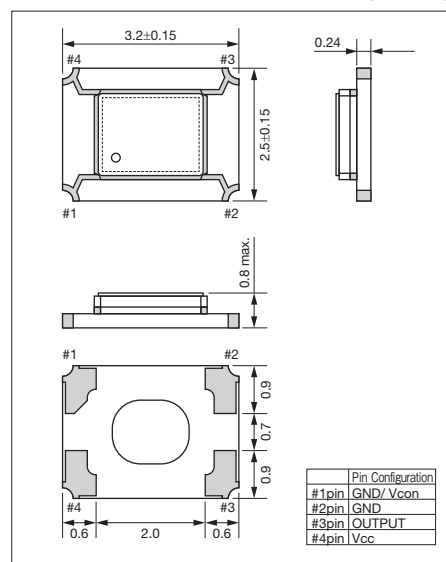
Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	f _o		10	60	MHz
Frequency Tolerance	f _{tol}	vs Temperature	−0.5/ −2	+0.5/ +2	×10 ^{−6}
		vs Load	−0.2	+0.2	
		vs Voltage	−0.2	+0.2	
Frequency Aging	f _{age}	Per Year	−1	+1	×10 ^{−6}
Storage Temperature Range	T _{stg}		−40	+85	°C
Operating Temperature Range	T _{use}		−30	+85	°C
Voltage Control Range	f _{cont}	Positive	±8	±15	×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.

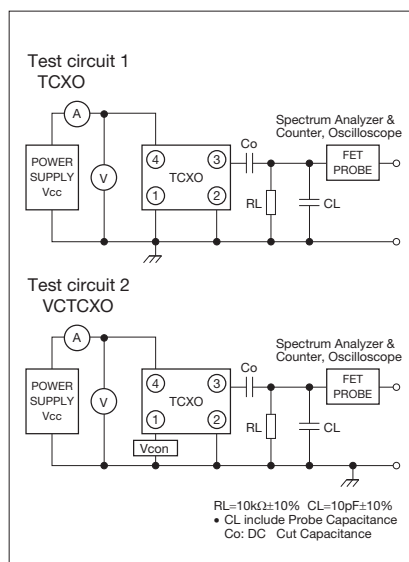
* Please contact us for other specifications.

Dimensions

(Unit: mm)

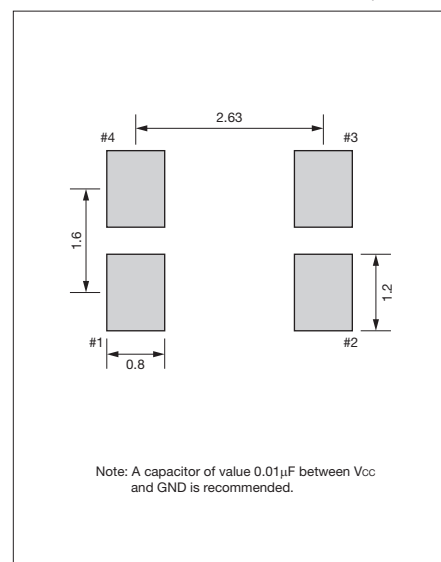


Test Circuit



Recommended Land Pattern

(Unit: mm)



Note: A capacitor of value $0.01\mu\text{F}$ between V_{CC} and GND is recommended.