

# Temperature Compensated Crystal Oscillators (TCXO, VCTCXO) Surface Mount Type TCXO (LSI Type) KT2016 Series



2.0×1.6mm



RoHS Compliant

## Features

- Miniature SMD type (2.0×1.6×0.8mm)
- Freq. temp. characteristics:  
: ±2.0×10<sup>-6</sup>/-30 to +85°C  
: ±0.5×10<sup>-6</sup>/-30 to +85°C (for GPS)
- 1.68 to 3.63V available
- Reflow compatible
- Operating Temp. -40 to +105°C (Option)
- Ultra low supply current 800µA typ.  
Conditions of 26MHz and 1.0Vp-p (Option)
- AEC-Q200 qualified
- AEC-Q100 qualified (Option)

## Applications

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

## How to Order

KT2016K 26000 A C W 18 T xx  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series	⑥ Supply Voltage
② Output Frequency	⑦ Voltage Control Function
③ Freq. Temp. Chrst.	⑧ Option Code
<b>A</b> ±0.5×10 <sup>-6</sup>	<b>18</b> 1.8V <b>28</b> 2.8V
<b>B</b> ±1.0×10 <sup>-6</sup>	<b>30</b> 3.0V <b>33</b> 3.3V
<b>C</b> ±1.5×10 <sup>-6</sup>	<b>T</b> TCXO
<b>D</b> ±2.0×10 <sup>-6</sup>	<b>Other*</b> VCTCXO
④ Lower Operating Temp.	* Customer Spec.
<b>C</b> -30°C	
<b>E</b> -20°C	
<b>G</b> -10°C	
⑤ Upper Operating Temp.	
<b>W</b> +85°C	
<b>V</b> +80°C	
<b>U</b> +75°C	

Packaging (Tape & Reel 15000 pcs./ reel)

## Specifications

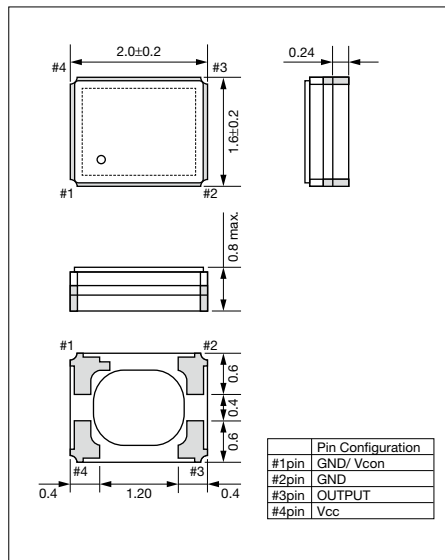
Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	f <sub>o</sub>		10	52	MHz
Frequency Tolerance	f <sub>tol</sub>	vs Temperature	-0.5/ -2	+0.5/ +2	×10 <sup>-6</sup>
		vs Load	-0.2	+0.2	
		vs Voltage	-0.2	+0.2	
Frequency Aging	f <sub>age</sub>	Per Year	-1	+1	×10 <sup>-6</sup>
Storage Temperature Range	T <sub>stg</sub>		-40	+85	°C
Operating Temperature Range	T <sub>use</sub>		-30	+85	°C
Voltage Control Range	f <sub>cont</sub>	Positive	±8	±15	×10 <sup>-6</sup>
Supply Voltage	V <sub>cc</sub>		1.68	3.63	V
Output Level	V <sub>pp</sub>	Clipped Sine*, Load: 10k ohm // 10pF	0.8	-	Vp-p
Current Consumption	I <sub>cc</sub>		-	2	mA
Harmonics	-		-	-5	dBc

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

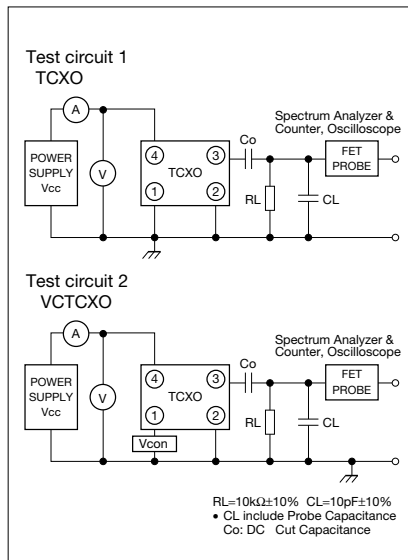
\* Please contact us for other specifications.

## Dimensions

(Unit: mm)



## Test Circuit



## Recommended Land Pattern

(Unit: mm)

