

Temperature Compensated Crystal Oscillators (TCXO) Surface Mount Type TCXO (LSI Type) KT3225 Series



3.2x2.5mm



RoHS Compliant

Features

- Miniature SMD type (3.2x2.5x1.0mm)
- Reflow compatible
- AFC function available
- 2.3 to 3.9V drive available
- Freq. temp. characteristics: $\pm 2.0 \times 10^{-6}/ -30$ to $+85^\circ\text{C}$

Applications

- 3G (CDMA, W-CDMA, TD-SCDMA), GPRS, GSM, W-LAN, WiMAX
- Low power radio communications

How to Order

KT3225P 26000 D C W 28 T xx
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

| | |
|----------------------------|-------------------------|
| ① Series | ⑥ Supply Voltage |
| ② Output Frequency | 28 2.8V 30 3.0V |
| ③ Freq. Temp. Chrst. | ⑦ Voltage Control Range |
| B $\pm 1.0 \times 10^{-6}$ | T TCXO |
| C $\pm 1.5 \times 10^{-6}$ | Other* VCTCXO |
| D $\pm 2.0 \times 10^{-6}$ | * Customer Spec. |
| ④ Lower Operating Temp. | ⑧ Option Code |
| C -30°C | |
| E -20°C | |
| G -10°C | |
| ⑤ Upper Operating Temp. | |
| W $+85^\circ\text{C}$ | |
| V $+80^\circ\text{C}$ | |
| U $+75^\circ\text{C}$ | |

Packaging (Tape & Reel 3000 pcs./ reel)

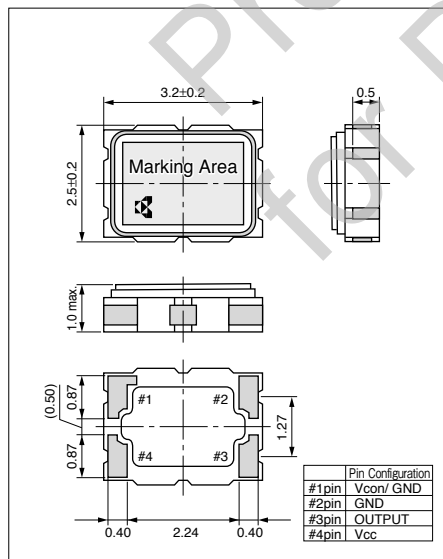
Specifications

| Item | Symbol | Conditions | Min. | Max. | Units |
|-----------------------------|-------------------|--|---------|----------|------------------|
| Output Frequency Range | fo | Standard Frequency: 13, 19.2, 26, 38.4, 40, 52 | 13 | 52 | MHz |
| Frequency Tolerance | f _{tol} | vs Temperature | -2 | +2 | $\times 10^{-6}$ |
| | | vs Load | -0.1 | +0.1 | |
| | | 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 | ± 8 | ± 15 | $\times 10^{-6}$ |
| Supply Voltage | V _{cc} | | 2.3 | 3.9 | V |
| Output Level | V _{pp} | Clipped Sine*, Load: 10k ohm // 10pF | 0.8 | — | Vp-p |
| Current Consumption | I _{cc} | | — | 2 | mA |
| Harmonics | — | | — | -5 | dBc |

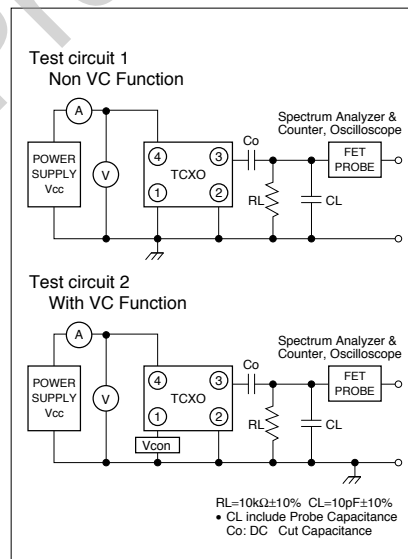
* : A DC-cut capacitor is not embedded in this crystal oscillator. Connect a DC-cut capacitor ($\geq 1\text{nF}$) to the line-out terminal of the oscillator.

Dimensions

(Unit: mm)



Test Circuit



Recommended Land Pattern

(Unit: mm)

