



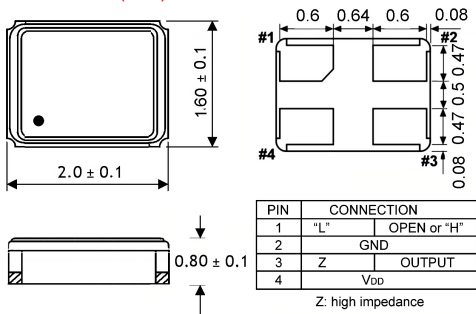
Clock Oscillator

SMD-version

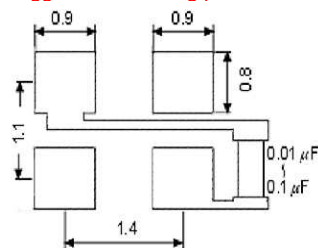
+1.8V / +3.3V

| | |
|---|--|
| part no. | 12.xxxxx |
| model | KXO-V94-kHz |
| frequency | 32.768 kHz |
| frequency stability at -20 ~ +70°C at -40 ~ +85°C | ± 50 ppm ±100 ppm |
| operating temperature | standard -20 ~ +70°C available -40 ~ +85°C (=KXO-V94T) |
| storage temperature | -40 ~ +125°C |
| supply voltage range | +1.8V ~ +5.0V |
| input voltage V_{DD} | +1.8V DC ±5% or +3.3V DC ±5% |
| input current max. | 240 µA |
| symmetry | 45% ~ 55% at 50% V_{DD} level |
| rise & fall time max. | 200 ns (10% V_{DD} ~ 90% V_{DD} level) |
| "0" level max. | VOL: 10% V_{DD} |
| "1" level min. | VOH: 90% V_{DD} |
| tri-state control voltage (Pin#1) | VIH: V_{DD} x 0.7 min. VIL: V_{DD} x 0.3 max. |
| output load max. | 15pF HCMOS |
| start up time max. | 10 ms |
| disable delay time max. | 150 ns |
| enable delay time max. | 10 ms |
| stand by current max. | 50 µA (Pin #1=VIL) |
| jitter | deterministic jitter 5ps max. random jitter 7ps max. norm 1-sigma 7ps max. peak to peak 40ps max. |
| contents of reel | 3000 pcs. |

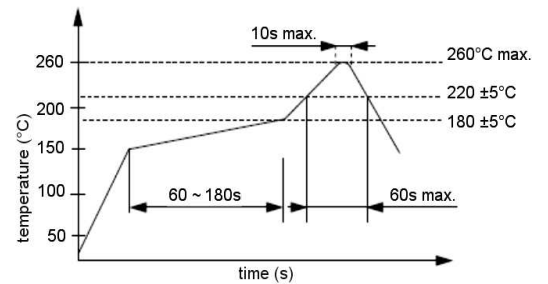
Dimensions (mm):



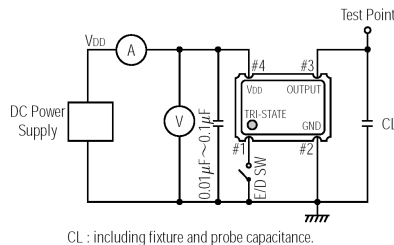
Suggested soldering pad:



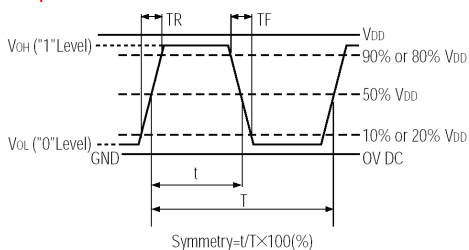
Reflow soldering condition:



Test circuit:



Output waveform:



Tape specification:

