

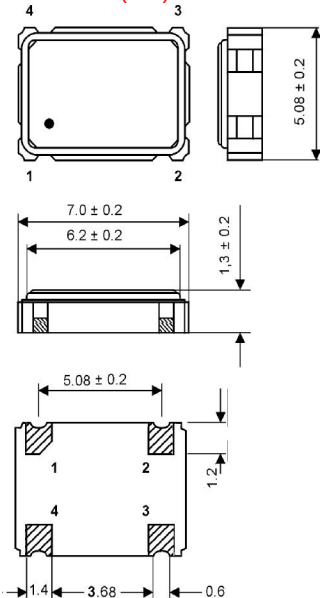


## Clock Oscillator SMD-version

+3.3V

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| part no.                               | 12.94345                            |
| model                                  | KXO-V97                             |
| frequency                              | 24.5760 MHz                         |
| frequency stability<br>at -20° ~ +70°C | ±50 ppm                             |
| operating temperature                  | -20° ~ +70°C                        |
| storage temperature                    | -55° ~ +125°C                       |
| symmetry                               | 50% ±10% at ½ V <sub>DD</sub> level |
| rise & fall time max.                  | 6 ns                                |
| "O" level max.                         | +0.4V                               |
| "1" level min.                         | V <sub>DD</sub> -0.5V               |
| input voltage V <sub>DD</sub>          | +3.3V ±10%                          |
| input current                          | 6.0 mA typ., 11.0 mA max.           |
| output load                            | 30 pF                               |
| start up time max.                     | 10 ms                               |
| tristate function                      | yes                                 |
| disable delay time max.                | 50 µs                               |
| enable delay time max.                 | 4 ms                                |
| phase jitter                           | (12 kHz – 20 MHz) with 1 ps         |
| random jitter max.                     | 7ps                                 |
| peak to peak jitter max.               | 40ps                                |
| contents of reel                       | 1000 pcs.                           |

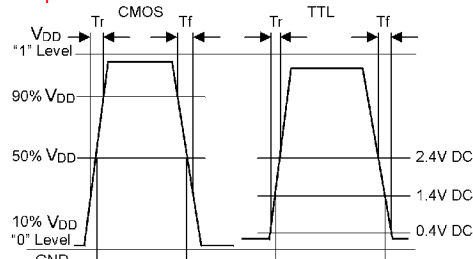
### Dimensions (mm):



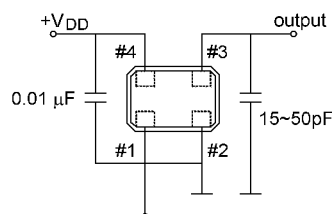
| PIN | Connection           |
|-----|----------------------|
| 1   | "L" (0V) "H" or OPEN |
| 2   | GND                  |
| 3   | Z OUTPUT             |
| 4   | V <sub>DD</sub>      |

Z: high impedance

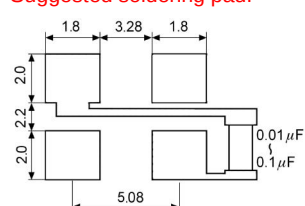
### Output waveform:



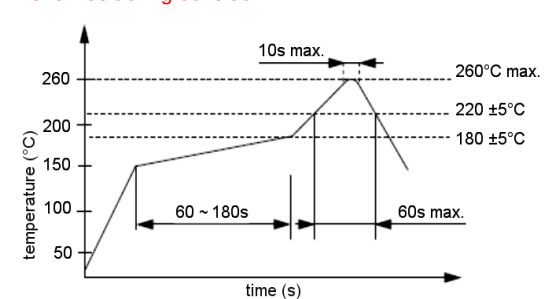
### Test circuit:



### Suggested soldering pad:



### Reflow soldering condition:



### Tape specifications:

