

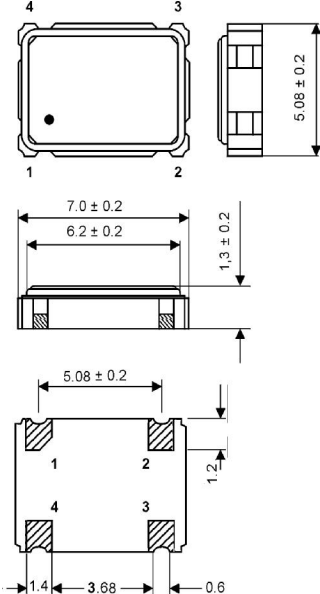


## Clock Oscillator SMD-version

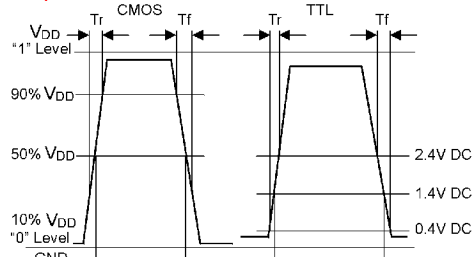
+2.5 V

|                                        |                                      |
|----------------------------------------|--------------------------------------|
| part no.                               | 12.92107                             |
| model                                  | KXO-V97                              |
| frequency                              | 12.0 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>          | +2.5V ±5%                            |
| input current                          | 4.0 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.                            |

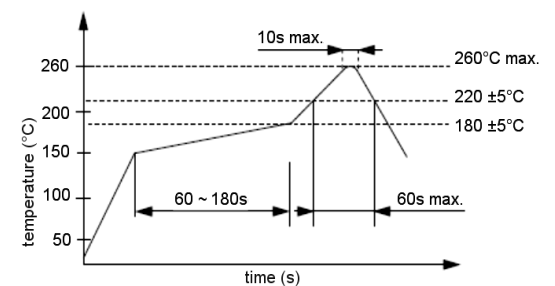
### Dimensions (mm):



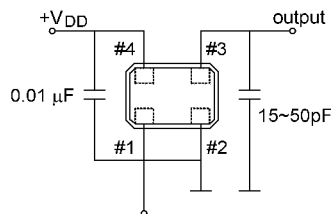
### Output waveform:



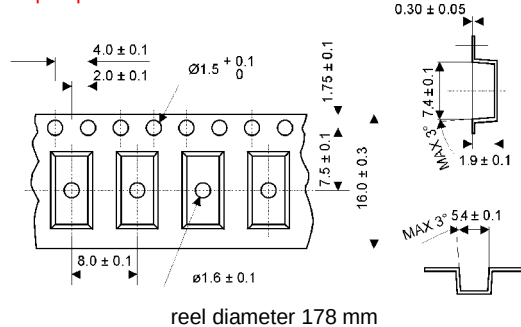
### Reflow soldering condition:



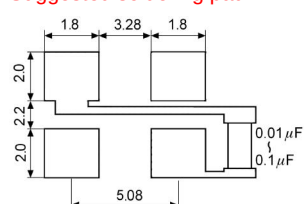
### Test circuit:



### Tape specifications:



### Suggested soldering pad:



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

Z: high impedance