



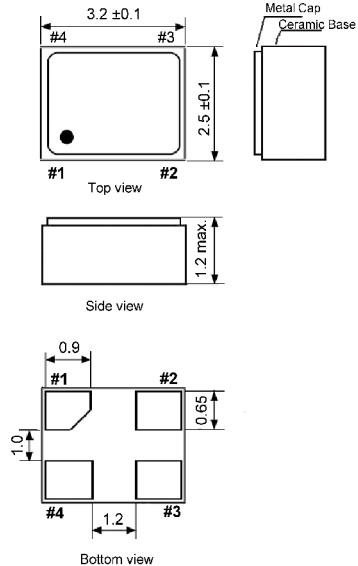
## Clock Oscillator SMD-version

+3.3 V

|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| part no.                            | 12.95055                                                                                   |
| model                               | KXO-V96T                                                                                   |
| frequency                           | 33.333 MHz                                                                                 |
| frequency stability at -40° ~ +85°C | ±50 ppm                                                                                    |
| operating temperature               | -40° ~ +85°C                                                                               |
| storage temperature                 | -50° ~ +125°C                                                                              |
| symmetry                            | 45 % ~ 55 % at 50 % V <sub>DD</sub> level                                                  |
| rise & fall time max.               | 5 ns (10 % V <sub>DD</sub> ~ 90 % V <sub>DD</sub> level)                                   |
| "O" level max.                      | VOL: 10 % V <sub>DD</sub>                                                                  |
| "1" level min.                      | VOH: 90 % V <sub>DD</sub>                                                                  |
| input voltage V <sub>DD</sub>       | +3.3 V ±5 %                                                                                |
| supply voltage range                | -0.5 V ~ +7.0 V                                                                            |
| input current max.                  | 6.0 mA typ 11.0 mA max.                                                                    |
| output load max.                    | 15 pF (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 max.                         | deterministic jitter 5 ps    norm 1-sigma 7 ps<br>random jitter 7 ps    peak to peak 40 ps |
| contents of reel                    | 1000 pcs.                                                                                  |

\* Internal crystal oscillation to be halted (pin#1=VIL)

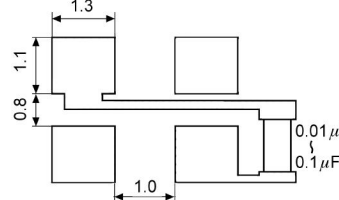
### Dimensions (mm):



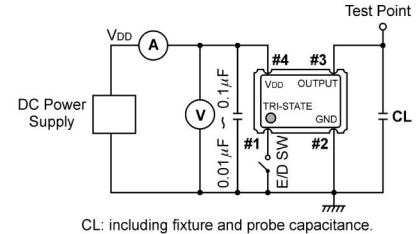
| PIN | Connection           |
|-----|----------------------|
| 1   | "L" (0V) "H" or OPEN |
| 2   | GND                  |
| 3   | Z OUTPUT             |
| 4   | V <sub>DD</sub>      |

Z: high impedance

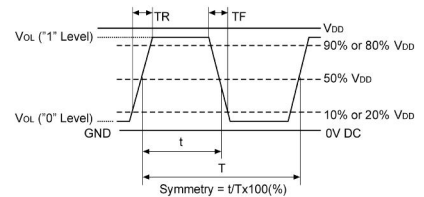
### Suggested soldering pad:



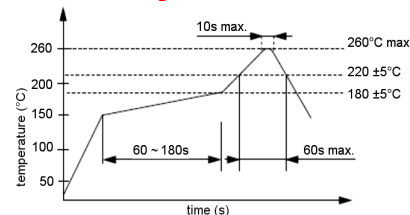
### Test circuit:



### Output Waveform:



### Reflow soldering condition:



### Tape specification:

