



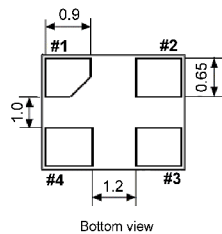
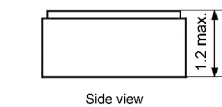
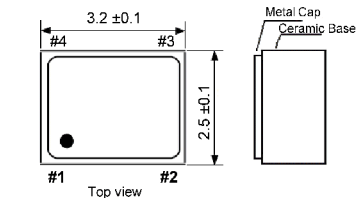
## Clock Oscillator SMD-version

+2.8 V

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| part no.                            | 12.95129                                                                                     |
| model                               | KXO-V96T                                                                                     |
| frequency                           | 27.0 MHz                                                                                     |
| frequency stability at -40° ~ +85°C | ±50 ppm                                                                                      |
| operating temperature               | -40° ~ +85°C                                                                                 |
| storage temperature                 | -40° ~ +125°C                                                                                |
| symmetry                            | 40 % ~ 60 % at 50 % V <sub>DD</sub> level                                                    |
| rise & fall time max.               | 5 ns (10 % V <sub>DD</sub> ~ 90 % V <sub>DD</sub> level)                                     |
| "0" level max.                      | VOL: 10 % V <sub>DD</sub>                                                                    |
| "1" level min.                      | VOH: 90 % V <sub>DD</sub>                                                                    |
| input voltage V <sub>DD</sub>       | +2.8 V ±5 %                                                                                  |
| stand-by control voltage (pin#1)    | V <sub>IH</sub> (min): 70 % V <sub>DD</sub><br>V <sub>IL</sub> (max): 30 % V <sub>DD</sub> * |
| supply voltage                      | -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 = V <sub>IL</sub> )                                                            |
| 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=V<sub>IL</sub>)

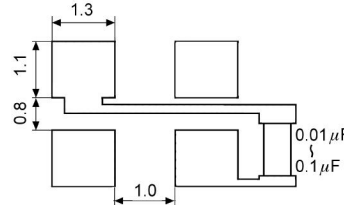
### Dimensions (mm):



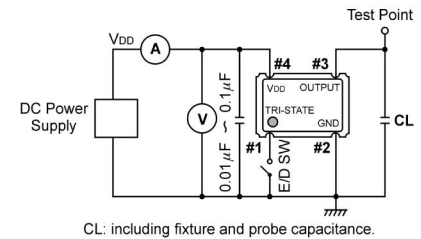
| PIN | Connection           |
|-----|----------------------|
| 1   | "L" (0V) "H" or OPEN |
| 2   | GND                  |
| 3   | Z OUTPUT             |
| 4   | V <sub>DD</sub>      |

Z: high impedance

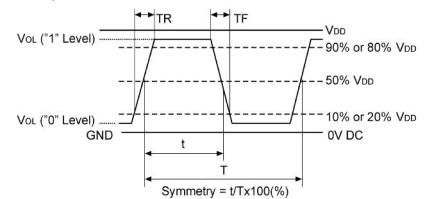
### Suggested soldering pad:



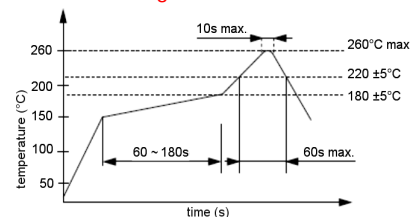
### Test circuit:



### Output Waveform:



### Reflow soldering condition:



### Tape specification:

