

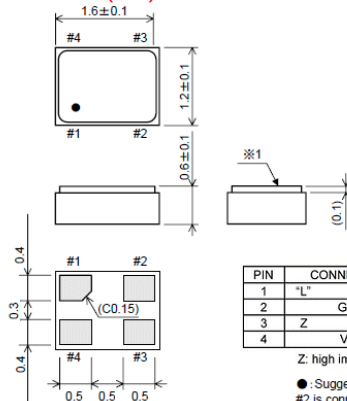


## Clock Oscillator SMD-version

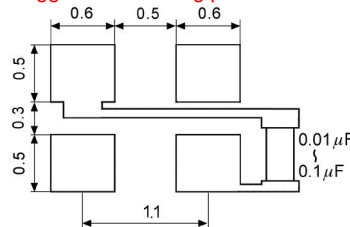
+3.3V

|                                     |                                                                          |
|-------------------------------------|--------------------------------------------------------------------------|
| part no.                            | 12.73002                                                                 |
| model                               | KXO-V93T                                                                 |
| frequency                           | 40.0 MHz                                                                 |
| frequency stability at -40° ~ +85°C | ±30 ppm                                                                  |
| operating temperature               | -40° ~ +85°C                                                             |
| storage temperature                 | -40° ~ 105°C                                                             |
| symmetry                            | 50% ~ 50% at V <sub>DD</sub> level                                       |
| rise & fall time max.               | 4.5 ns (10% V <sub>DD</sub> ~ 90% V <sub>DD</sub> level)/V <sub>DD</sub> |
| "0" level max.                      | VOL: 10% V <sub>DD</sub>                                                 |
| "1" level min.                      | VOH: 90% V <sub>DD</sub>                                                 |
| supply voltage range                | +1.60V ~ +3.63V                                                          |
| input voltage V <sub>DD</sub>       | +3.3V DC ±5%                                                             |
| tri-state control voltage (Pin#1)   | VIH: V <sub>DD</sub> x 0,7 min.<br>VIL: V <sub>DD</sub> x 0,3 max.       |
| input current max.                  | 2 mA at 40 MHz V <sub>DD</sub> +3V, no load                              |
| output load max.                    | 15 pF (HCMOS)                                                            |
| start up time max.                  | 2 ms                                                                     |
| disable delay time max.             | 200 ns                                                                   |
| enable delay time max.              | 5 ms                                                                     |
| stand by current max.               | 10 µA (Pin #1=VIL)                                                       |
| random jitter                       | 2.9 ps typ. at V <sub>DD</sub> +3.3V                                     |
| total jitter                        | 40 ps at V <sub>DD</sub> +3.3V                                           |
| contents of reel                    | 5000 pcs.                                                                |

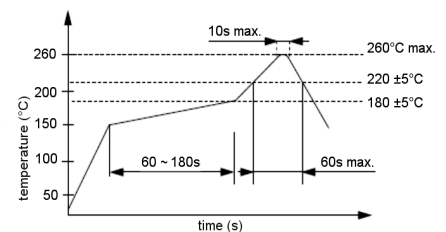
### Dimensions (mm):



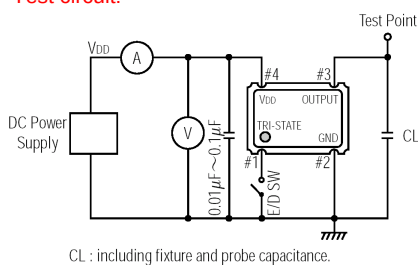
### Suggested soldering pad:



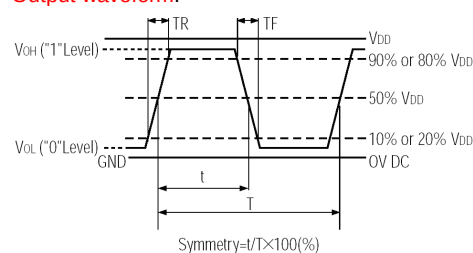
### Reflow soldering condition:



### Test circuit:



### Output waveform:



### Tape specification:

