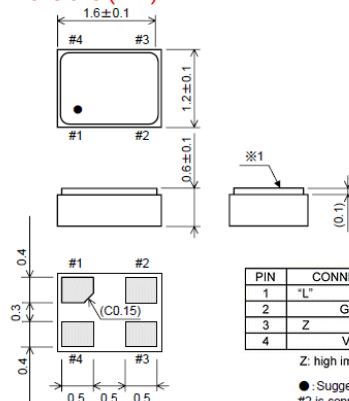




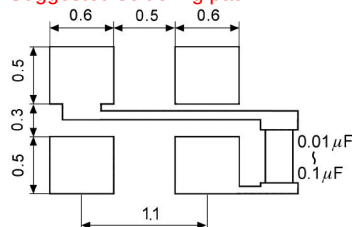
## +3.3V

|                                        |                                                                          |
|----------------------------------------|--------------------------------------------------------------------------|
| part no.                               | 12.73003                                                                 |
| model                                  | KXO-V93T                                                                 |
| frequency                              | 50.0 MHz                                                                 |
| frequency stability<br>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> |
| "O" 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.                                                                |

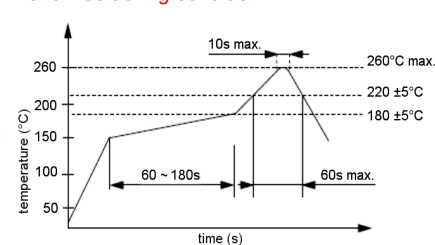
Dimensions (mm):



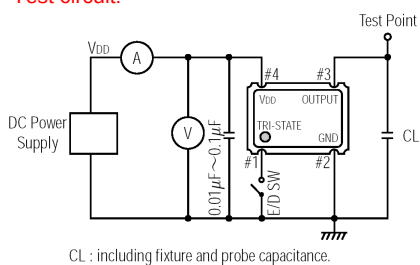
Suggested soldering pad:



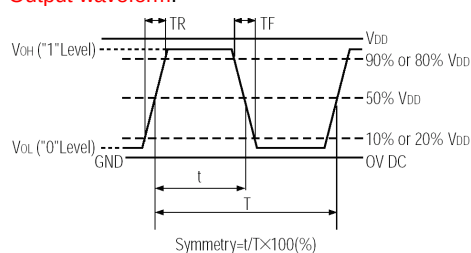
Reflow soldering condition:



Test circuit:



Output waveform:



Tape specification:

