

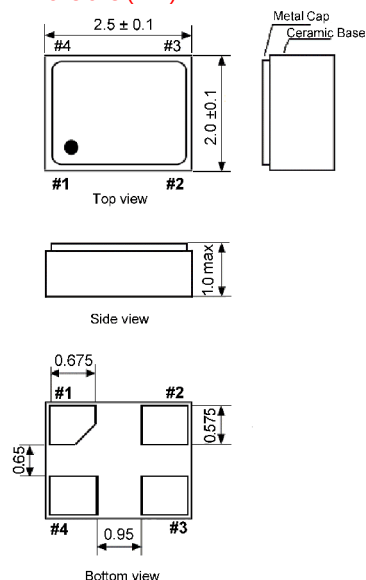


## Clock Oscillator SMD-version

+3.3 V

|                                     |                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------|
| part no.                            | 12.95575                                                                                       |
| model                               | KXO-V95                                                                                        |
| frequency                           | 45.15840 MHz                                                                                   |
| frequency stability at -20° ~ +70°C | ±20 ppm                                                                                        |
| operating temperature               | -20° ~ +70°C                                                                                   |
| storage temperature                 | -40° ~ +85°C                                                                                   |
| symmetry                            | 40 % ~ 60 % at 50 % V <sub>DD</sub> level                                                      |
| rise & fall time max.               | 10 ns (10 % V <sub>DD</sub> ~ 90 % V <sub>DD</sub> level)                                      |
| "0" level max.                      | V <sub>OL</sub> : 10 % V <sub>DD</sub>                                                         |
| "1" level min.                      | V <sub>OH</sub> : 90 % V <sub>DD</sub>                                                         |
| input voltage V <sub>DD</sub>       | + 3.3 V DC ±0.5 %                                                                              |
| tri-state control voltage (Pin#1)   | V <sub>IH</sub> : V <sub>DD</sub> x 0.7 min.<br>V <sub>IL</sub> : V <sub>DD</sub> x 0.3 max.   |
| supply voltage range                | +1.8 V ~ +3.6 V                                                                                |
| supply current                      | 5.7 mA typ 12.0 mA max.                                                                        |
| output load max.                    | 15 pF (HCMOS)                                                                                  |
| start up time max.                  | 10 ms                                                                                          |
| disable delay time max.             | 200 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.                                                                                      |

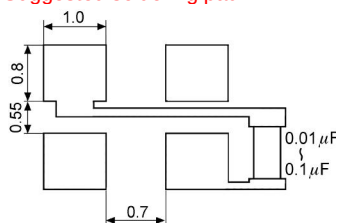
### Dimensions (mm):



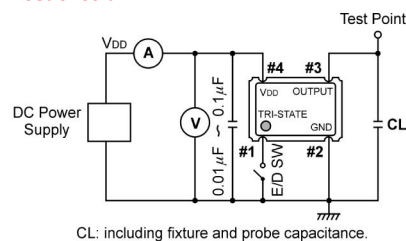
| Pin | Connection           |
|-----|----------------------|
| 1   | "L" (0V) "H" or OPEN |
| 2   | GND                  |
| 3   | Z OUTPUT             |
| 4   | V <sub>DD</sub>      |

Z: high impedance

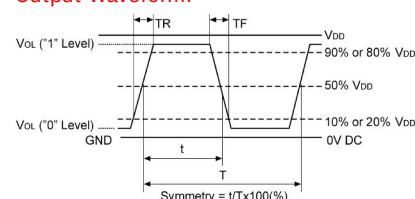
### Suggested soldering pad:



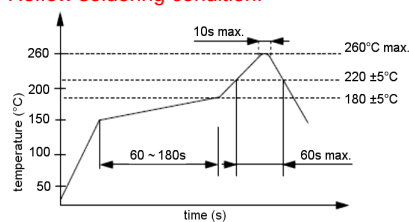
### Test circuit:



### Output Waveform:



### Reflow soldering condition:



### Tape specification:

