

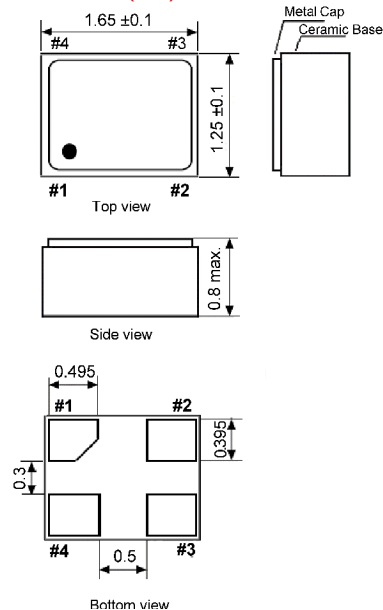


Clock Oscillator SMD-version

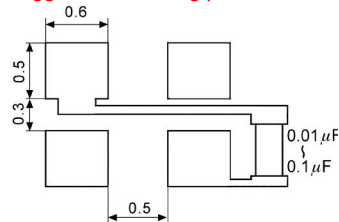
+3.3 V

part no.	12.73009
model	KXO-V93T
frequency	24.0 MHz
frequency stability at -40° ~ +85°C	±30 ppm
operating temperature	-40° ~ +85°C
storage temperature	-40° ~ +85°C
symmetry	45 % ~ 55 % at 50 % V_{DD} level
rise & fall time max.	5 ns (10 % V_{DD} ~ 90 % V_{DD} level) / V_{DD}
"O" level max.	V_{OL} : 10 % V_{DD}
"1" level min.	V_{OH} : 90 % V_{DD}
supply voltage range	+1.8 V ~ +3.6 V
input voltage V_{DD}	+3.3 V DC ±5 %
tri-state control voltage (Pin#1)	V_{IH} : $V_{DD} \times 0.7$ min. V_{IL} : $V_{DD} \times 0.3$ max.
supply current	3.4 mA typ., 7 mA max.
output load max.	15 pF (HCMOS)
start up time max.	5 ms
disable delay time max.	200 ns
enable delay time max.	10 ms
stand by current max.	10 μ A (Pin #1 = V_{IL})
contents of reel	1000 pcs.

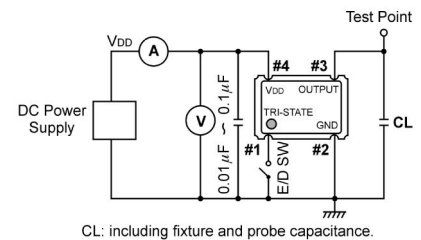
Dimensions (mm):



Suggested soldering pad:



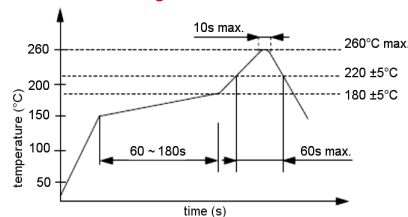
Test circuit:



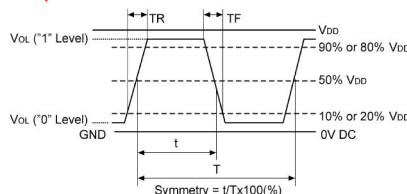
PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V_{DD}

Z: high impedance

Reflow soldering condition:



Output Waveform:



Tape specification:

