



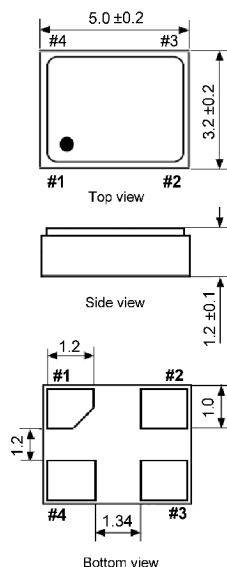
Clock Oscillator

SMD-version

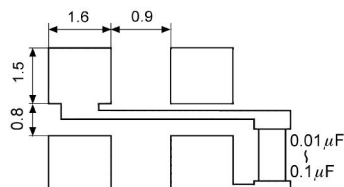
+3.3 V

part no.	12.94750
model	KXO-V99
frequency	48.0 MHz
frequency stability at -20° ~ +70°C	±25 ppm
operating temperature	-20° ~ +70°C
storage temperature	-55° ~ +125°C
symmetry	45 % / 55 % ±10 % at ½ V _{DD} level
rise & fall time max.	4 ns
"O" level max.	V _{DD} x 0.1 V
"1" level min.	V _{DD} x 0.9 V
input voltage V _{DD}	+ 3.3 V ±5 %
input current max.	6.0 mA typ., 11.0 mA max.
output load	15 pF
start up time max.	10 ms
tristate function	yes
disable delay time max.	50 µs
enable delay time max.	4 ms
stand by current max.	10 µA
phase jitter	(12 kHz – 20 MHz) with 1 ps
random jitter max.	7 pS
peak to peak jitter max.	40 pS
contents of reel	1000 pcs.

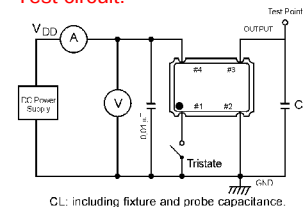
Dimensions (mm):



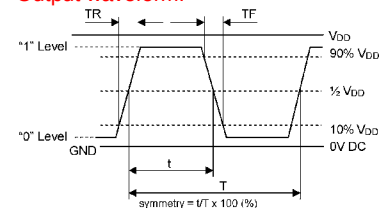
Suggested soldering pad:



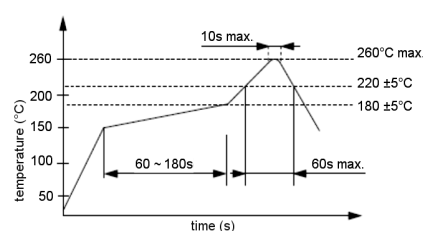
Test circuit:



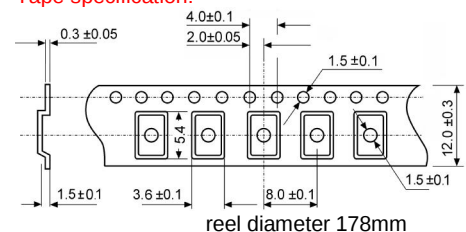
Output waveform:



Reflow soldering condition:



Tape specification:



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

Z: high impedance