



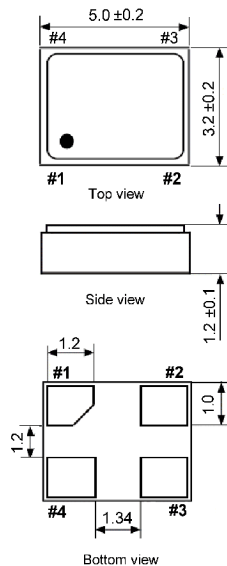
Clock Oscillator

SMD-version

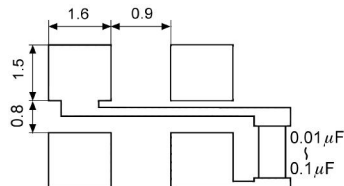
+3.3 V

part no.	12.94760
model	KXO-V99T
frequency	24.0 MHz
frequency stability at -40° ~ +85°C	±25 ppm
operating temperature	-40° ~ +85°C
storage temperature	-55° ~ +125°C
symmetry	45 % / 55 % ±10 % at ½ V _{DD} level
rise & fall time max.	4 ns
"0" 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	6.0 mA typ 11.0 mA max.
output load HCMOS	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.

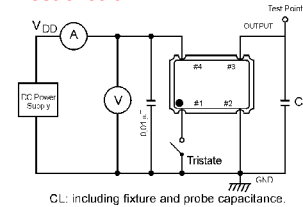
Dimensions (mm):



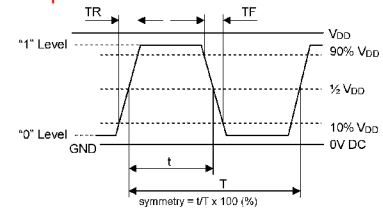
Suggested soldering pad:



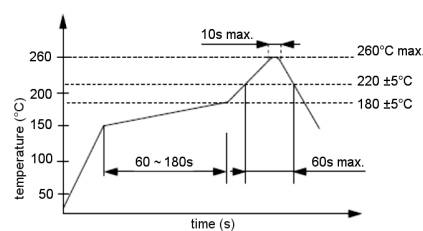
Test circuit:



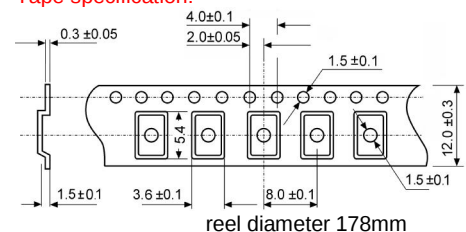
Output waveform:



Reflow soldering condition:



Tape specification:



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

Z: high impedance