



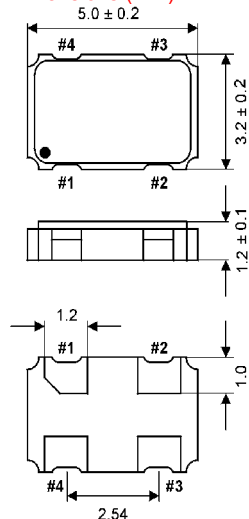
Clock Oscillator

SMD-version

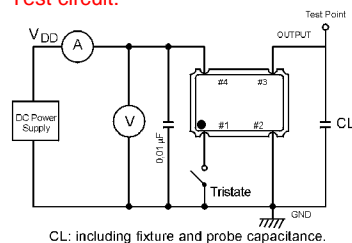
3.3V

part no.	12.94625
model	KXO-V99
frequency	12.0 MHz
frequency stability at -20° ~ +70°C	±50 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
"0" level max.	V _{DD} x 0.1V
"1" level min.	V _{DD} x 0.9 V
input voltage V _{DD}	+3.3V ±5%
input current	4.0 mA typ., 6.0 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.	7ps
peak to peak jitter max.	40ps
contents of reel	1000 pcs.

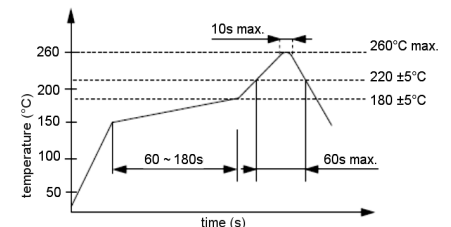
Dimensions (mm):



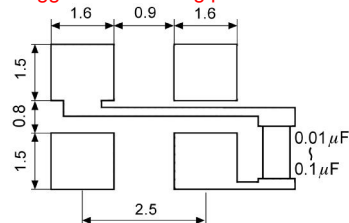
Test circuit:



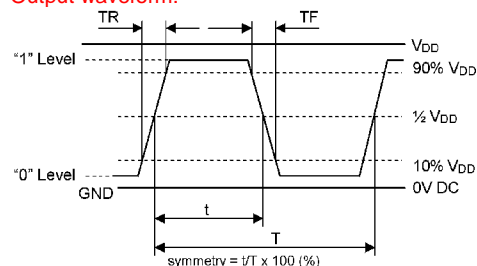
Reflow soldering condition:



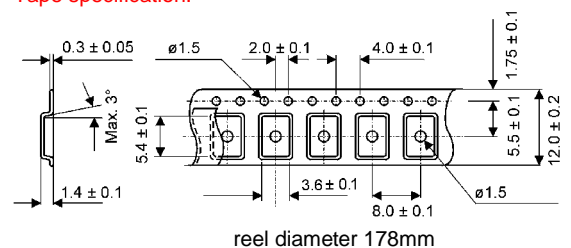
Suggested soldering pad:



Output waveform:



Tape specification:



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