



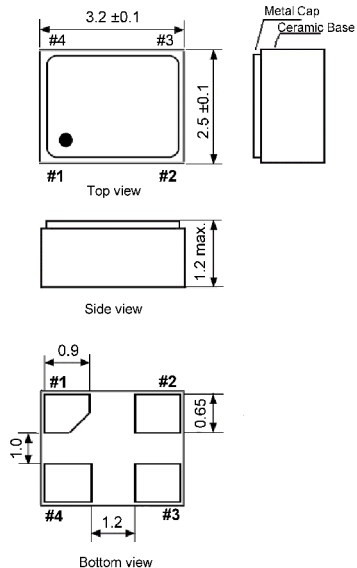
Clock Oscillator SMD-version

+3.3 V

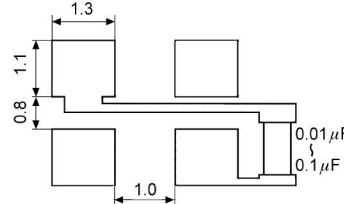
part no.	12.95064
model	KXO-V96E
frequency	4.0 MHz
frequency stability at -40° ~ +105°C	±150 ppm
operating temperature	-40° ~ +105°C
storage temperature	-50° ~ +125°C
symmetry	40 % ~ 60 % at 50 % V _{DD} level
rise & fall time max.	5 ns (10 % V _{DD} ~ 90 % V _{DD} level)
"0" level max.	VOL: 10 % V _{DD}
"1" level min.	VOH: 90 % V _{DD}
input voltage V _{DD}	+3.3 V ±5 %
stand-by control voltage (pin#1)	VIH (min): 70% V _{DD} VIL (max): 30% V _{DD} *
supply voltage	-0.5 V ~ +7.0 V
input current	4.0 mA typ., 6.0 mA max. (pin #1 = Open or VIH)
output load max.	15 pF (HCMOS)
start up time max.	10 ms
disable delay time max.	150 ns
enable delay time max.	10 ms
stand by current max.*	50 µA (Pin #1 = VIL)
jitter max.	deterministic jitter 5 ps norm 1-sigma 7 ps random jitter 7 ps peak to peak 40 ps
contents of reel	1000 pcs.

* Internal crystal oscillation to be halted (pin#1=VIL)

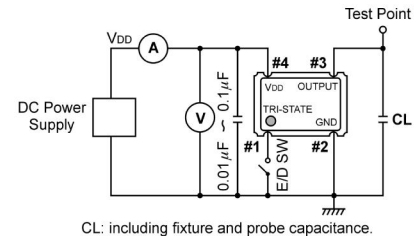
Dimensions (mm):



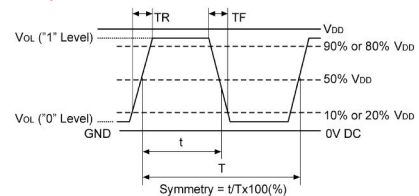
Suggested soldering pad:



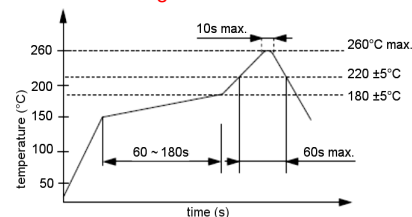
Test circuit:



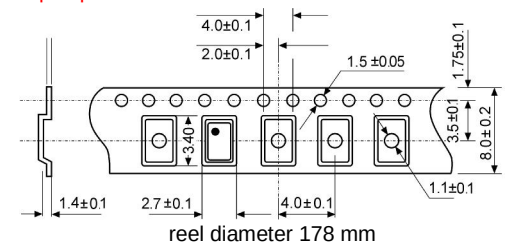
Output Waveform:



Reflow soldering condition:



Tape specification:



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

Z: high impedance