



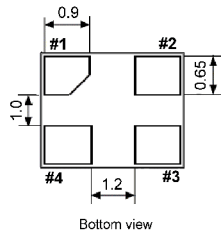
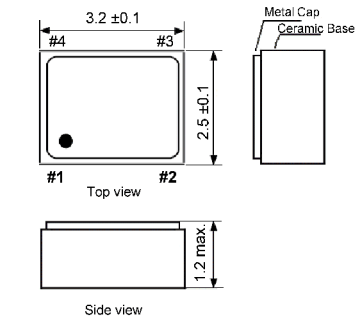
Clock Oscillator SMD-version

+3.3 V

part no.	12.95165
model	KXO-V96
frequency	15.0 MHz
frequency stability at -20° ~ +70°C	±50 ppm
operating temperature	-20° ~ +70°C
storage temperature	-50° ~ +125°C
symmetry	45 % ~ 55 % 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)	V _{IH} (min): 70 % V _{DD} V _{IL} (max): 30 % V _{DD} *
supply voltage	-0.5 V ~ +7.0 V
input current max.	2.5 mA
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 = V _{IL})
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=V_{IL})

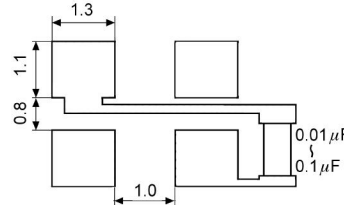
Dimensions (mm):



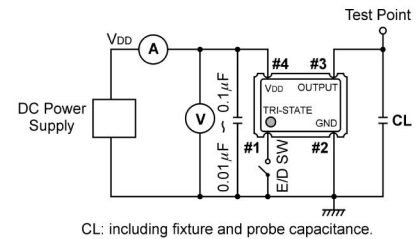
PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V _{DD}

Z: high impedance

Suggested soldering pad:

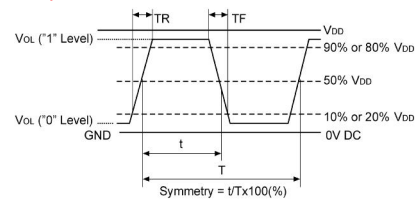


Test circuit:

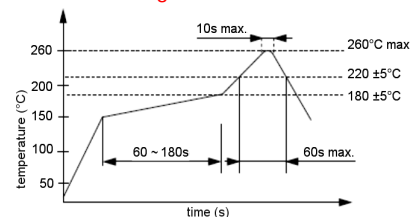


CL: including fixture and probe capacitance.

Output Waveform:



Reflow soldering condition:



Tape specification:

