

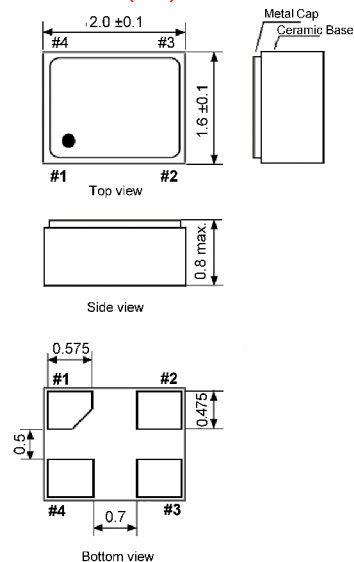


Clock Oscillator SMD-version

+3.3 V

part no.	12.90336
model	KXO-V94
frequency	12.0 MHz
frequency stability at -20° ~ +70°C	±50 ppm
operating temperature	-20° ~ +70°C
storage temperature	-55° ~ +100°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.	V _{OL} : 10 % V _{DD}
"1" level min.	V _{OH} : 90 % V _{DD}
supply voltage V _{DD}	+3.3 V DC ±5 %
tri-state control voltage (Pin#1)	V _{IH} : V _{DD} x 0.7 min. V _{IL} : V _{DD} x 0.3 max.
supply voltage range	+1.8 V ~ +3.6 V
supply current	2.0 mA typ., 5.0 mA max.
output load max.	15 pF (HCMOS)
start up time max.	10 ms
disable delay time max.	200 ns
enable delay time max.	10 ms
stand by current max.	10 µA (Pin #1 = V _{IL})
contents of reel	1000 pcs.

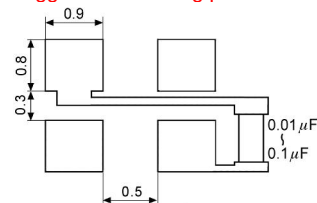
Dimensions (mm):



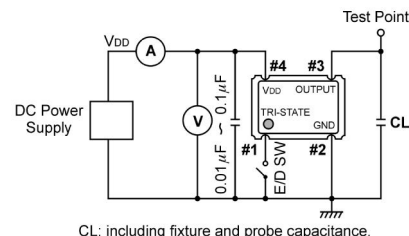
PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V _{DD}

Z: high impedance

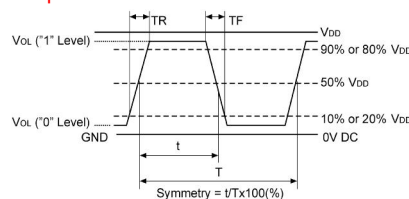
Suggested soldering pad:



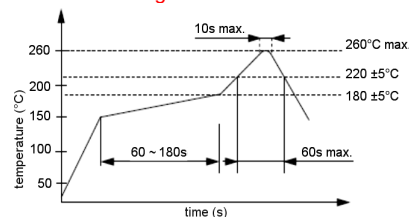
Test circuit:



Output Waveform:



Reflow soldering condition:



Tape specification:

