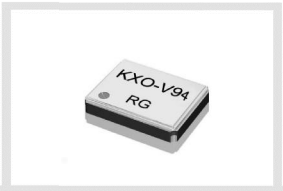


RoHS 2015/863/EU compliant | REACH compliant | Conflict minerals free

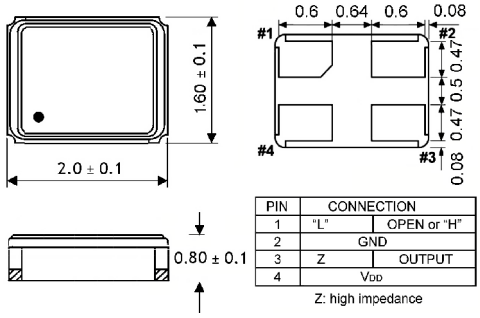
GEYER quartz technology

Clock Oscillator SMD-version

+1.8V / +2.5V / +2.8V/ +3.0V/ +3.3V

part no.	12.xxxxx			
model	KXO-V94			
frequency range	1.0 ~ 80.0 MHz			
frequency stability at -20° ~ +70°C at -40° ~ +85°C	 ± 50 ppm ±100 ppm			
operating temperature	standard -20° ~ +70°C available -40° ~ +85°C (=KXO-V94T)			
storage temperature	-55° ~ +100°C			
supply voltage range	-0.5V ~ +4.0V			
input voltage V_{DD}	+1.8V DC ±5%, +2.5V DC ±5%, +2.8V DC ±5%, +3.0V DC ±5% or +3.3V DC ±5%			
input current max.		+1.8V	+2.5V/+2.8V	+3.0V/+3.3V
	0.75 ~ 19.9 MHz	2.5 mA	4.5 mA	6.0 mA
	20.0 ~ 39.9 MHz	3.0 mA	5.5 mA	7.0 mA
	40.0 ~ 49.9 MHz	3.5 mA	6.5 mA	8.0 mA
	50.0 ~ 80.0 MHz	6.5 mA	7.0 mA	9.0 mA
symmetry	45% ~ 55% at 50% V_{DD} level			
rise & fall time max.	6 ns (10% V_{DD} ~ 90% V_{DD} level)/V_{DD} = +1.8V 5 ns (10% V_{DD} ~ 90% V_{DD} level)/V_{DD} +2.5V +2.8V +3.0V +3.3V			
"O" level max.	VOL: 10% V_{DD}			
"1" level min.	VOH: 90% V_{DD}			
tri-state control voltage (Pin#1)	VIH: V_{DD} x 0.7 min. VIL: V_{DD} x 0.3 max.			
output load max.	15pF HCMOS			
start up time max.	10 ms			
disable delay time max.	150 ns			
enable delay time max.	10 ms			
stand by current max.	10 µA (Pin #1=VIL)			
contents of reel	1000 pcs. / 3000 pcs.			

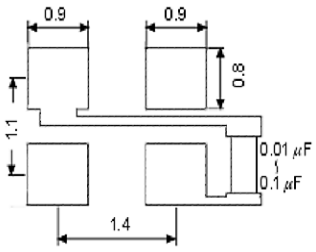
Dimensions (mm):



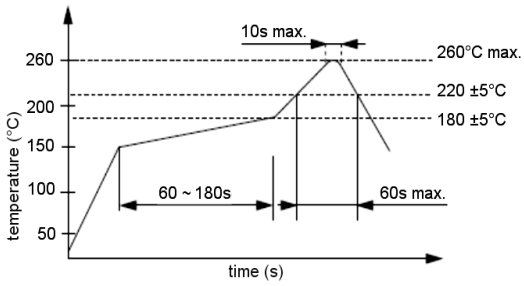
PIN	CONNECTION	
1	"L"	OPEN or "H"
2	GND	
3	Z	OUTPUT
4	V_{DD}	

Z: high impedance

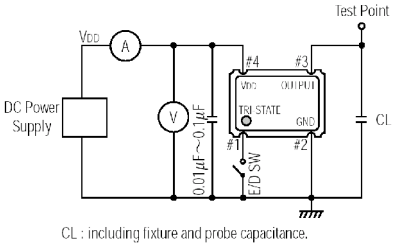
Suggested soldering pad:



Reflow soldering condition:

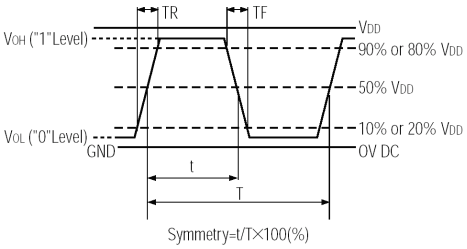


Test circuit:



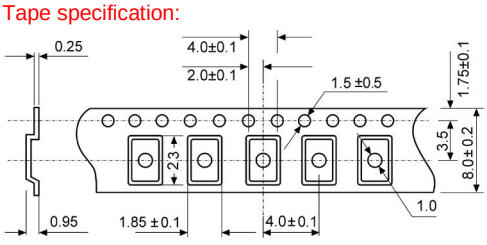
CL : including fixture and probe capacitance.

Output waveform:



Symmetry=t/T×100(%)

Tape specification:



reel diameter 178 mm

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