

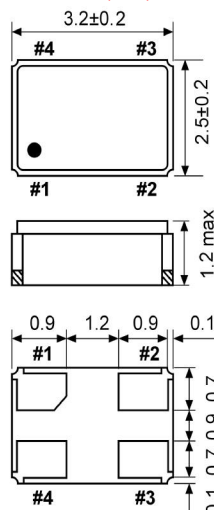
Clock Oscillator SMD-version

+1,8 / +2,5 / +2,8 / +3,0 / +3,3V

model	KXO-V96			
frequency range	1,0 ~ 133,0 MHz			
frequency stability at -20° ~ + 70°C	± 50 ppm			
at -40° ~ + 85°C	± 100 ppm			
at -40° ~ +105°C	± 120 ppm			
operating temperature	standard -20° ~ + 70°C available -40° ~ + 85°C (=KXO-V96T) available -40° ~ +105°C (=KXO-V96E)			
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}	+1,8 ~ +3,3V ±5%			
stand-by control voltage (pin#1)	VIH(min): 70% V _{DD} VIL(max): 30% V _{DD} *			
supply voltage	-0,5V ~ +7,0V			
input current max.		+1,8V	+2,5V	+3,0V/+3,3V
	1,0 ~ 20,0MHz	3,5 mA typ., 6,0 mA max.	4,0 mA typ., 6,0 mA max.	4,0 mA typ., 6,0 mA max.
	20,1 ~ 50,0MHz	4,5 mA typ., 6,0 mA max.	4,0 mA typ. 11,0 mA max.	6,0 mA typ 11,0 mA max.
	50,1 ~ 80,0MHz	6,0 mA typ. 11,0 mA max.	6,0 mA typ. 11,0 mA max.	9,0 mA typ. 16,0 mA max.
	80,1 ~ 133,0MHz	15 mA typ., 20 mA max.	20 mA typ., 40 mA max.	20 mA typ., 40 mA 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.*	50 µA (Pin #1=VIL)			
jitter	deterministic jitter	5ps max.	norm 1-sigma	7ps max.
	random jitter	7ps max.	peak to peak	40ps max.
contents of reel	1000 pcs.			
part no.	12.xxxxx			

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

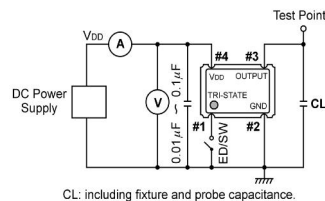
Dimensions (mm):



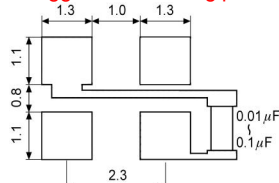
PIN	CONNECTION
1	"L" OPEN or "H"
2	GND
3	Z OUTPUT
4	VDD

Z: high impedance

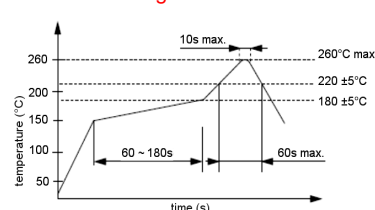
Test circuit:



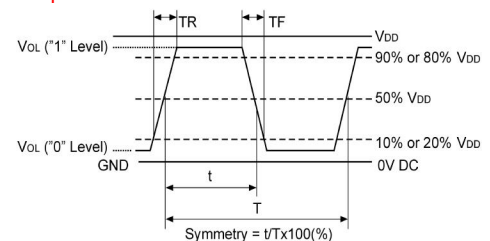
Suggested soldering pad:



Reflow soldering condition:



Output waveform:



Tape specification:

