



GEYER KXO-V99 Features and Applications:

- Oscillator with supply voltage range +1.2 V ~ +3.6 V
- Package size: 5.0 x 3.2 x 1.2 mm, 4 pad footprint
- Frequency range: 0.5 ~ 200.0 MHz
- Moisture Sensitivity Level, MSL Level 1
- Recommended for Industrial Automation, Embedded Systems, Networking, etc.
- For further requirements, please contact us



Clock Oscillator

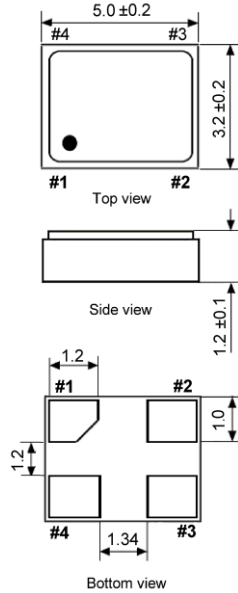
SMD-version

+1.8 / +2.5 / +3.3 V

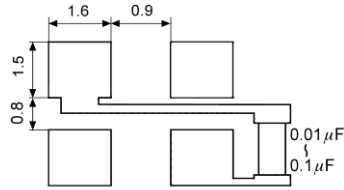
part no.	12.xxxxx				
model	KXO-V99				
frequency range	0.5 ~ 39.999 MHz	40.0 ~ 59.999 MHz	60.0 ~ 69.999 MHz	70.0 ~ 79.999 MHz	80.0 ~ 160.0 MHz
frequency range	160.0 ~ 200.0 MHz (for +2.5 /+3.3 V)				
frequency stability at -20° ~ +70°C; -40° ~ +85°C -40° ~ +105°C; -40° ~ +125°C	±25 ppm, ±50 ppm ±30 ppm; ±50 ppm; ±100 ppm				
operating temperature	standard -20° ~ +70°C available -40° ~ +85°C (=KXO-V99T); -40° ~ +105°C (=KXO-V99E); -40° ~ +125°C (=KXO-V99F)				
storage temperature	-55° ~ +125°C				
supply voltage range	+1.8 V ~ +3.3 V				
supply voltage V _{DD}	standard +3.3 V DC ±5 % available +1.8 V DC ±5 %, +2.5 V DC ±5 %				
supply current max		+1.8 V	+2.5 V	+3.3 V	
	1.0 ~ 39.999 MHz	4 mA	6 mA	10 mA	
	40.0 ~ 59.999 MHz	6 mA	8 mA	15 mA	
	60.0 ~ 69.999 MHz	10 mA	12 mA	20 mA	
	70.0 ~ 79.999 MHz	25 mA	30 mA	40 mA	
	80.0 ~ 160.0 MHz	30 mA	40 mA	40 mA	
	160.0 ~ 200.0 MHz	n.a.	65 mA	80 mA	
symmetry	45 % ~ 55 % at 50 % V _{DD} level				
rise & fall time max.	5 ns				
"O" level max.; "1" level min.	VOL: 10 % V _{DD} ; 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	1.0 ~ 75.0 MHz 30 pF, 15 pF 75.1 ~ 200.0 MHz 15 pF				
start up time max.	10 ms				
disable / enable delay time	200 ns max. / 10 ms max.				
standby current max.	20 µA				
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.				



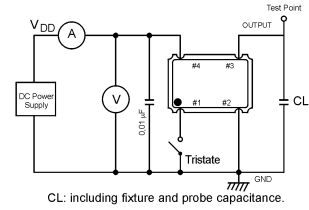
Dimensions (mm):



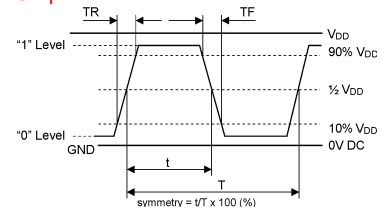
Suggested soldering pad:



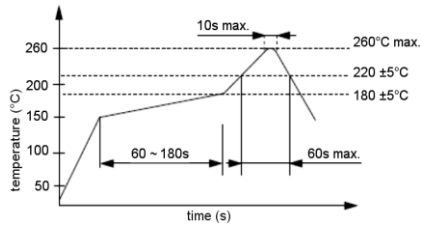
Test circuit:



Output waveform:



Reflow soldering condition:



Tape specification:

