



GEYER KXO-V95 Features and Applications:

- Oscillator with supply voltage range +1.8 V ~ +3.6 V
- Package size: 2.5 x 2.0 x 0.8 mm, 4 pad footprint
- Frequency range: 1.0 ~ 160.0 MHz
- Moisture Sensitivity Level, MSL Level 1
- Recommended for Industrial, IoT, LoRa WAN, Low Power, Portable devices
- For further requirements, please contact us



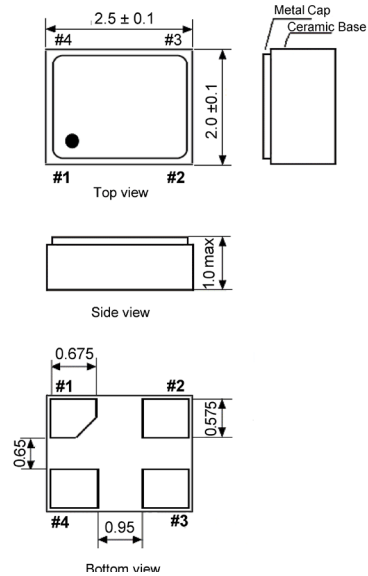
Clock Oscillator SMD-version

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

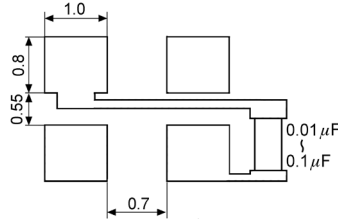
part no.	12.xxxxx						
model	KXO-V95						
frequency range	1.0 ~ 160.0 MHz						
frequency stability at -20° ~ +70°C; -40° ~ +85°C -40° ~ +105°C; -40° ~ +125°C	±25 ppm, ±50 ppm ±30 ppm; ±50 ppm						
operating temperature range	-20° ~ +70°C, -40° ~ +85°C (= KXO-V95T) available -40° ~ +105°C (= KXO-V95E); -40° ~ +125°C (= KXO-V95F)						
storage temperature range	-55° ~ +125°C						
supply voltage V _{DD}	+1.8 V DC ±5 %, +2.5 V DC ±5 %, +2.8 V DC ±5 %, +3.0 V DC ±5 % or +3.3 V DC ±5 %						
supply current typ. / max.		+1.8 V		+2.5 V / +2.8 V		+3.0 V / +3.3 V	
	1.0 ~ 20.0 MHz	1.1 mA	4.0 mA	1.3 mA	4.0 mA	2.0 mA	5.0 mA
	20.1 ~ 39.9 MHz	1.8 mA	5.0 mA	2.5 mA	5.0 mA	3.4 mA	7.0 mA
	40.0 ~ 69.9 MHz	3.5 mA	7.0 mA	4.4 mA	10.0 mA	5.7 mA	12.0 mA
	70.0 ~ 99.9 MHz	6.0 mA	13.0 mA	8.0 mA	15.0 mA	13.0 mA	20.0 mA
	100.0 ~ 129.9 MHz	8.0 mA	15.0 mA	10.0 mA	20.0 mA	14.0 mA	25.0 mA
	130.0 ~ 160.0 MHz	10.0 mA	20.0 mA	14.0 mA	25.0 mA	18.0 mA	30.0 mA
symmetry	45 % ~ 55 % at 50 % V _{DD} level						
rise & fall time max.	8 ns (10 % V _{DD} ~ 90 % V _{DD} level)/V _{DD} = +1.8 V 5 ns (10 % V _{DD} ~ 90 % V _{DD} level)/V _{DD} = +2.5 V, +2.8 V, +3.0 V, +3.3 V						
"O" level max.; "1" level min.	V _{OL} : 10 % V _{DD} ; V _{OH} : 90 % V _{DD}						
tri-state control voltage (Pin#1)	V _{IH} : V _{DD} x 0.7 min.; V _{IL} : V _{DD} x 0.3 max.						
output load max.	15pF HCMOS						
start up time max.	10 ms						
disable/enable delay time max	200 ns / 10 ms						
stand by current max.	10 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. / 3000 pcs.						



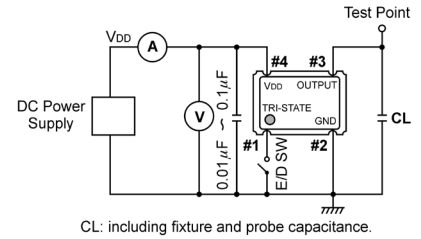
Dimensions (mm):



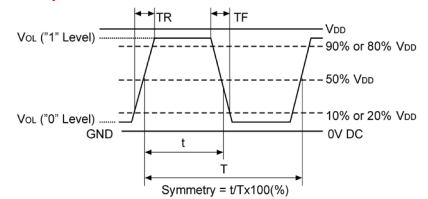
Suggested soldering pad:



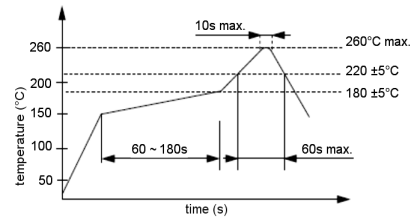
Test circuit:



Output Waveform:



Reflow soldering condition:



Tape specification:

