



GEYER KXO-V61 Features and Applications:

- LVDS VCXO Oscillator with supply voltage range +2.5 V ~ +3.6 V
- Package size: 3.2 x 2.5 x 1.2 mm, 6 pad footprint
- Frequency range: 30.0 ~ 200.0 MHz
- Wide pulling range and Low phase noise
- Moisture Sensitivity Level, MSL Level 1
- Recommended for Telecommunication, Network equipment, Industrial, etc
- For further requirements, please contact us



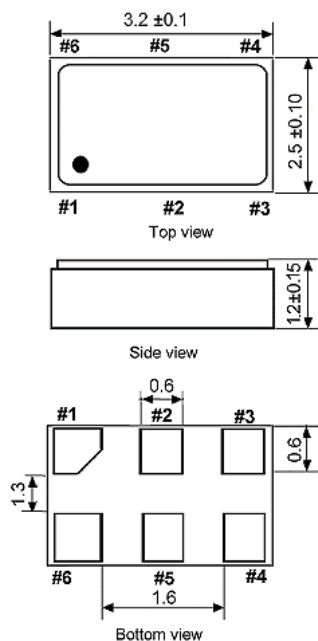
LVDS VCXO SMD-version

+2.5 / +3.3 V

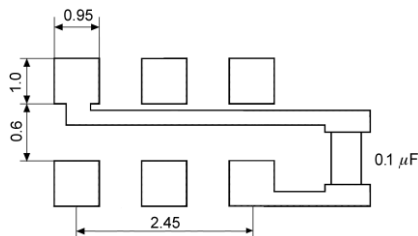
part no.	12.xxxxx
model	KXO-V61
frequency range	30.0 ~ 200.0 MHz
frequency stability incl. temperature stability input voltage and load stability, aging	±50 ppm standard ±25 ppm available
operating temperature	-20° ~ +70°C, -40° ~ +85°C
storage temperature	-55° ~ +125°C
symmetry	45 % / 55 % at ½ V _{DD} level or 40 % / 60 % at ½ V _{DD}
rise & fall time max.	0.7 ns (20 % ~ 80 % of output level)
output high level max.	1.43 V typ. ~ 1.60 V
output low level	0.90 V min. ~ 1.10 V typ.
supply voltage	+2.5V DC ±5 % or +3.3V DC ±5 %
output voltage level	V _{OL} : 0.9 V min. / V _{OH} : 1.6 V max.
supply current max.	35 mA
output load	100 Ohm (OUT – OUTN)
start up time max.	5 ms
APR (absolute pulling range) min.	>= ±5 ppm or 50 ppm
frequency linearity max.	10 %
frequency slope	positive
Vcon input impedance min.	10 MOhm at DC characteristic
disable delay time/ enable delay time max.	200 ns / 4 ms
pin 1 control voltage	1.25 V ±1.05 V (1.25 V), 1.65 V ±1.35 V (1.65 V)
pin 2 function	enable input voltage min.
	disable input voltage max.
output disable current (Pin #1 = VIL) max.	4.8 mA
phase jitter (12 kHz ~ 20 MHz) typ.	100 fs at 122.88 MHz (3.3V)
typical phase noise	-90 dBc / Hz at 100 Hz
	-120 dBc / Hz at 1 kHz
	-140 dBc / Hz at 10 kHz
contents of reel	1000 pcs.



Dimensions (mm):

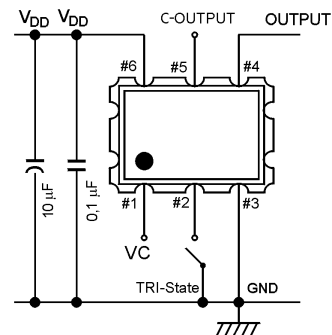


Suggested soldering pad:



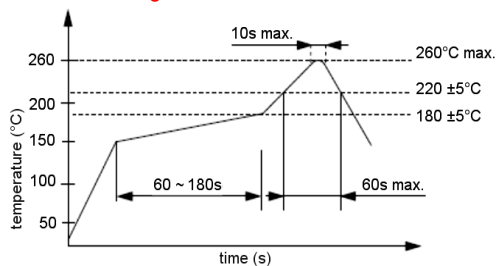
Note:
Capacitors of value 0,1µF and 10µF between V_{DD} and GND are recommended.

Test circuit:

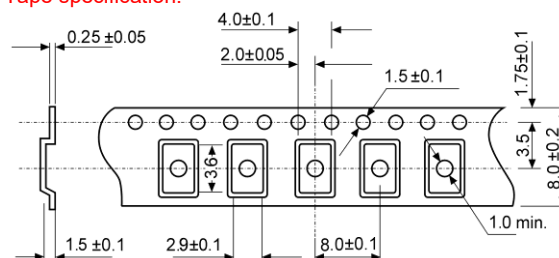


PIN	Connection
1	VC
2	"L" "H" or OPEN
3	GND
4	Z Output
5	Z C-Output
6	V _{DD}

Reflow soldering condition:



Tape specification:



reel diameter 178 mm