



GEYER KXO-69 Features and Applications:

- Ultra Low Jitter LVPECL Differential Oscillator
- Package size: 3.2 x 2.5 x 1.0 mm, 6 pad footprint
- Frequency range: 100.0 ~ 250.0 MHz
- Ultra low phase noise
- Moisture Sensitivity Level, MSL Level 1
- Recommended for Telecom (Ethernet, Fibre Channel) and industrial systems
- For further requirements, please contact us

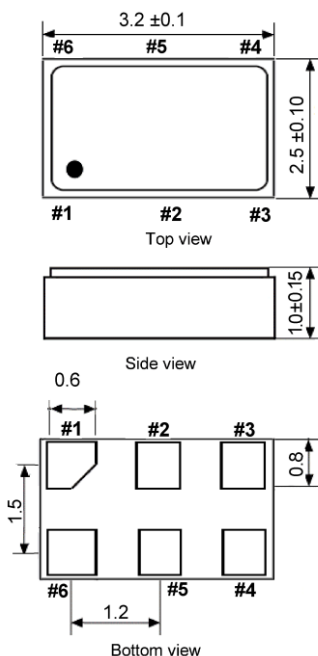


LVPECL Positive Emitter Coupled Oscillator SMD-version +2.5 / +3.3 V

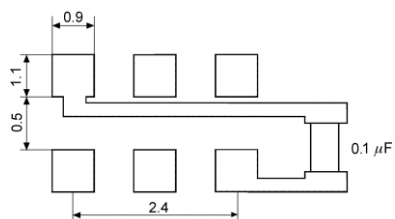
part no.	12.xxxxx
model	KXO-69
frequency range	100.0 ~ 250.0 MHz
frequency stability incl. temperature stability, input voltage and load stability, aging	±25 ppm; ±50 ppm; ±100 ppm
output load	50 Ohm (V_{DD} to +2.0 V)
operating temperature range	-20° ~ +70°C, -40° ~ +85°C (=KXO-69T)
storage temperature	-55°C ~ +150°C
supply voltage	+2.5 V DC ±10 % or +3.3 V DC ±10 %
output voltage level	V_{OL} : $V_{DD} - 1.81$ V min. / V_{OH} : $V_{DD} - 0.86$ V max.
Output Swing (single-ended)	400 mV (min)
supply current typ./max.	52 mA/65 mA
start-up time typ./max.	1 ms / 5 ms
symmetry	50 % ±5 %
rise time (T_r) / fall time (T_f) typ./max.	0.2 ns / 0.6 ns (Output level 20 % ~ 80 % of waveform)
aging ((referred to +25°C) max	±3 ppm first year, ±2 ppm following years
disable delay/enable delay time max.	200 ns / 10 ms
enable/disable (Pin 1) input voltage	30 % V_{DD} max.: output disable / 70 % V_{DD} min.: output enable
disable current (Pin#1=VIL) max.	30 µA
tristate function	yes
RMS jitter (12 kHz ~ 20 MHz) typ./max.	50 fs/300 fs
typical phase noise	-114 dBc / Hz at 100 Hz -135 dBc / Hz at 1 kHz -147 dBc / Hz at 10 kHz -157 dBc / Hz at 100 kHz -163 dBc / Hz at 1 MHz -164 dBc / Hz at 10 MHz
contents of reel	3000 pcs.



Dimensions (mm):



Suggested soldering pad:

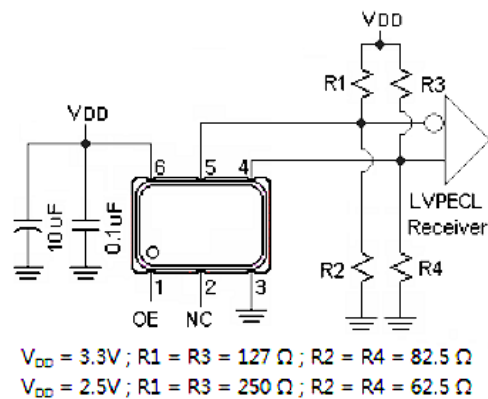


Note:
Capacitors of value 0.1 μ F and 10 μ F between V_{DD} and GND are recommended.

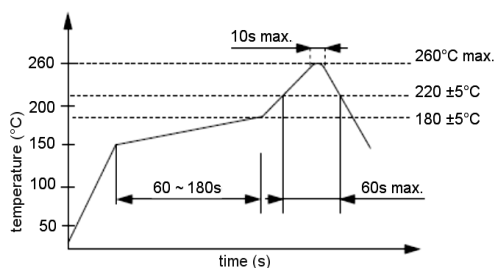
Pin	Connection
1	Tri-state*
2	NC
3	GND
4	Output
5	C-Output
6	V_{DD}

*enable high

Test circuit:



Reflow soldering condition:



Tape specification:

