

# TCXO

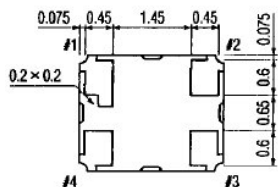
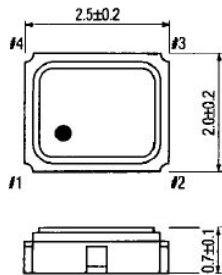
SMD-version +1.8 / +2.5 / +3.3V

Temperature Compensated Crystal Oscillator

model	KXO-86
frequency range	13,0 ~ 54,0 MHz*
initial frequency tolerance	±0,5 ppm max.
frequency stability	±2,5 ppm over -30°C ~ +75°C (referred to +25°C) ±0,3ppm max. at V <sub>DD</sub> ±5% DC ±0,2ppm max. ±1,0ppm max. / year at +25°C ±2°C
temperature range	
input voltage change	
output load change	
aging	
supply voltage	-0,3 ~ 4,0V
operating conditions	-30°C ~ +75°C +1.8V DC, +2.5V DC or +3.3V DC ±5%
operating temperature	
input voltage (V <sub>DD</sub> )	
storage temperature	-40°C ~ +85°C
input current	6.0 mA max.
output	HCMOS 15 pF
symmetry	45% / 55% at ½ V <sub>DD</sub> level
rise and fall time max.	5 ns (10% V <sub>DD</sub> ~ 90% V <sub>DD</sub> level)
"0" level	V <sub>OL</sub> : 10% V <sub>DD</sub> max.
"1" level	V <sub>OH</sub> : 90% V <sub>DD</sub> min.
SSB phase noise	-145 dBc/Hz typ. at 10 kHz
reflow frequency change	± 1,0ppm after reflow (at +25°C ± 2°C)
start up time	2 mS max.
typical phase noise	-80 dBc/Hz max. @1 10 Hz -110 dBc/Hz max. at 100 Hz -130 dBc/Hz max. at 1 kHz -145 dBc/Hz max. at 10 kHz -150 dBc/Hz max. at 100 kHz -150 dBc/Hz max. at 1 MHz
reflow soldering condition	+250°C ±10°C for 10 seconds, see diagram
contents fo reel	2000 pcs.
part no.	12.xxxxx

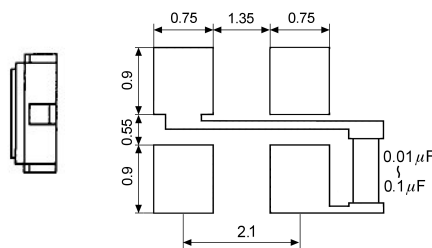
\* Standard frequencies: 13.0 MHz 13.50 MHz 16.0 MHz 20.0 MHz 26.0 MHz 27.0 MHz 32.0 MHz 40.0 MHz 54.0 MHz

### Dimensions (mm):

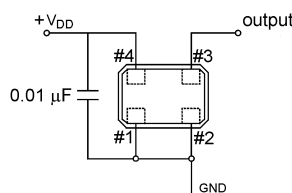


PIN	Connection
1	GND
2	GND
3	OUTPUT
4	V <sub>DD</sub>

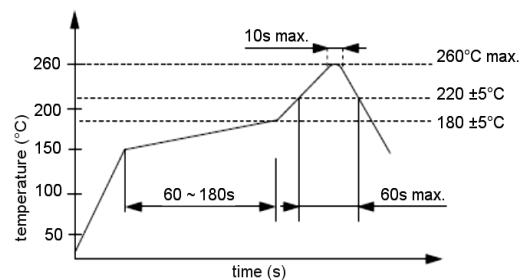
### Suggested soldering pad:



### Test circuit:



### Reflow soldering condition:



### Tape specification:

