



TCXO HCMOS

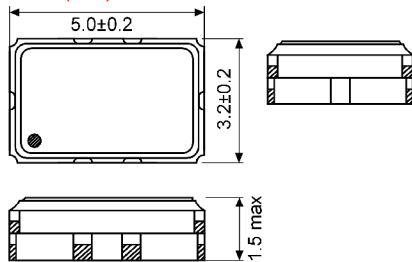
SMD-version

+2.8 / +3.3 V

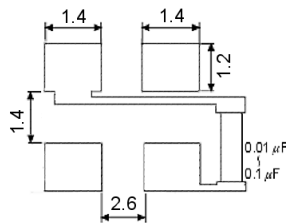
Temperature Compensated Crystal Oscillator

part no.	12.xxxxx	
model	KXO-83	
frequency range	6.0 ~ 40.0 MHz	
initial frequency tolerance max.	±1.5 ppm	
frequency stability	vs. temp.range	±1.0 ppm ~ ±2.5 ppm over -30° ~ +85°C (referred to +25°C) available ±1.5 ppm over -40° ~ +85°C (referred to +25°C)
	vs. input voltage max.	±0.3 ppm at V _{DD} ±5 %
	vs. load max.	±0.3 ppm ±5 %
	vs. aging max.	±1 ppm / year at +25°C
output	load	15 pF
	waveform	HCMOS
operating temperature range	standard -30°C ~ +85°C available -40°C ~ +85°C	
storage temperature range	-40°C ~ +85°C	
supply voltage range	+2.5 V ~ +3.4 V	
supply voltage V _{DD}	+2.8 V DC ± 5% or +3.3 V DC ±5%	
supply current	2.5 mA typ., 6 mA max.	
start-up time max.	2 ms	
symmetry	40 % / 60 % at 1/2 V _{DD} level	
rise and fall time max.	10 ns (10 % V _{DD} ~ 90 % V _{DD} level)	
phase noise typ.	-80 dBc/Hz at 10 Hz -110 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -140 dBc/Hz at 10 kHz -140 dBc/Hz at 100 kHz -145 dBc/Hz at 1 MHz	
contents of reel	1000 pcs.	

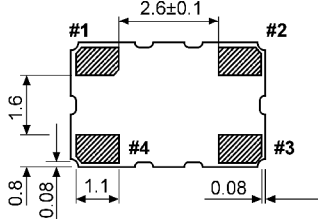
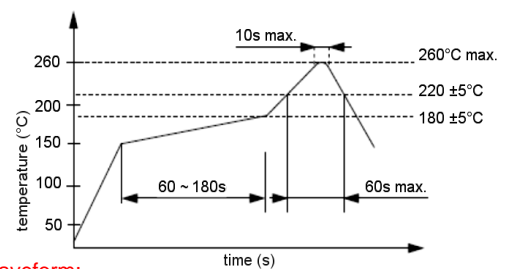
Dimensions (mm):



Suggested soldering pad:

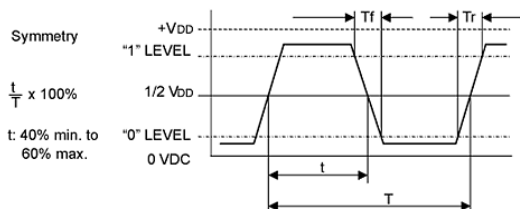


Reflow soldering condition:

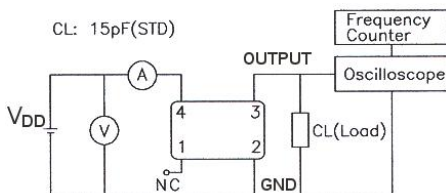


Pin	Connection
1	NC
2	GND
3	OUTPUT
4	V _{DD}

Output waveform:



Test circuit:



Tape specification:

