

# VCXO HCMOS

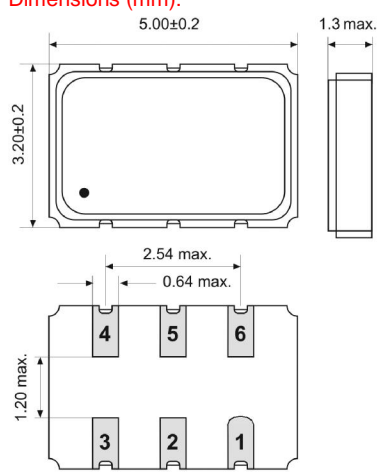
SMD-version

+2.5 / +3.3V

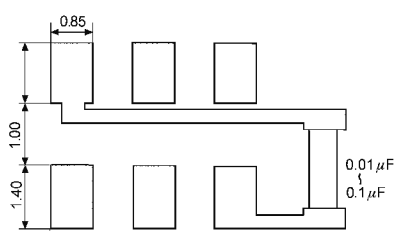
Voltage Controlled Crystal Oscillator

part no.	12.xxxxx	
model	KXO-72	
frequency range	1.0 ~ 80.0 MHz	
frequency stability	over all parameters	±50 ppm over -20°C ~ +70°C (referred to +25°C) ±100 ppm over -40°C ~ +85°C (referred to +25°C)
output	load	15 pF
	waveform	HCMOS
operating temperature range	-20°C ~ +70°C -40°C ~ +85°C	
storage temperature range	-55°C ~ +125°C	
supply voltage range	+2.5 ~ +3.6V	
input voltage V <sub>DD</sub>	+2.5V DC ±5% or +3.3V DC ±5%	
input current max.	10 mA at 1.0 MHz ~ 30 mA at 80.0 MHz (no load)	
start-up time max.	10 ms	
symmetry	40% / 60% at ½ V <sub>DD</sub> level	
rise and fall time max.	10 ns	
frequency control voltage	1.65V ±1.35V at +3.3V 1.25V ±1.05V at +2.5V	
frequency adjustment (pullability) min.	± 50 ppm ~ ±100 ppm	
phase jitter max.	1.0 ps	
phase noise max.	-80 dBc/Hz at 10 Hz -110 dBc/Hz at 100 Hz -135 dBc/Hz at 1 kHz -140 dBc/Hz at 10 kHz -145 dBc/Hz at 100 kHz	
contents of reel	1000 pcs.	

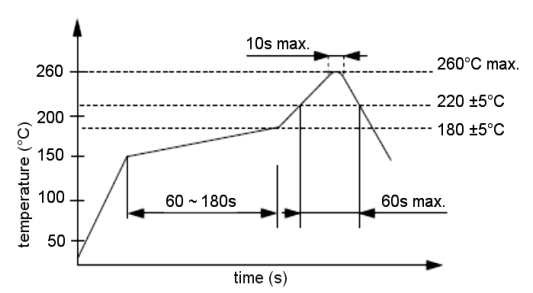
**Dimensions (mm):**



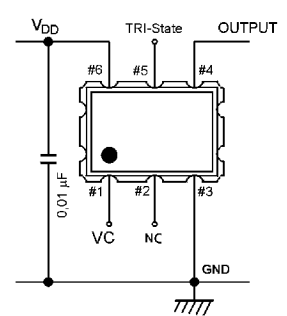
**Suggested soldering pad:**



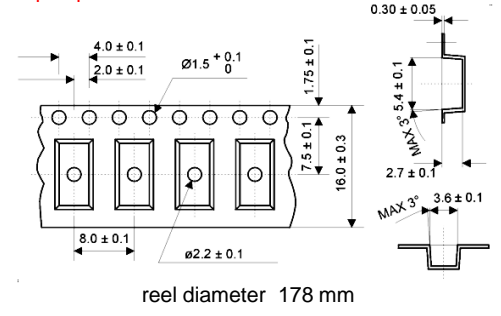
**Reflow soldering condition:**



**Test circuit:**



**Tape specification:**



Pin	Connection
1	VC
2	NC
3	GND
4	OUTPUT
5	Tri-State
6	V <sub>DD</sub>