



VCTCXO HCMOS

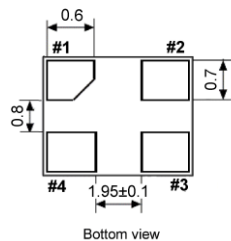
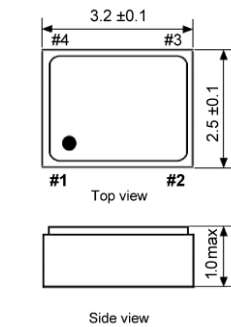
SMD-version

+2.5 / +3.3 V

Voltage Controlled Temperature Compensated Crystal Oscillator

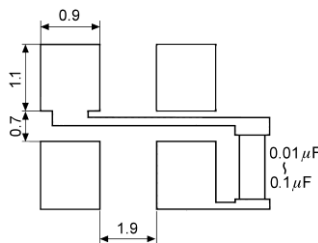
part no.	12.xxxxx	
model	KXO-84	
frequency range	8.0 ~ 40.0 MHz	
initial frequency tolerance max.	±1.0 ppm	
frequency stability	vs. temp.range	±2.5 ppm over -40°C ~ +85°C (referred to +25°C)
	vs. input voltage	±0.3 ppm at V _{DD} ±5 % DC
	vs. load max.	±0.3 ppm
	vs. aging max.	±1 ppm / year at +25°C
output	load	15 pF
	waveform	HCMOS
operating temperature range	-40°C ~ +85°C	
storage temperature range	-40°C ~ +85°C	
supply voltage range	+2.5V ~ +3.3V	
supply voltage V _{DD}	+2.5V DC ± 5% or +3.3V DC ±5%	
supply current max.	6.0 mA (no load)	
start-up time max.	2 ms	
symmetry	40% / 60% at ½ V _{DD} level	
rise and fall time max.	5 ns (10% V _{DD} ~ 90% V _{DD} level)	
"O" level max.; "1" level min.	V _{OL} : 10 % V _{DD} ; V _{OH} : 90 % V _{DD}	
frequency control voltage (VC)	+1.4V (1.5V) ±1.0V DC	
frequency adjustment pullability	3.0 ~ 15.0ppm	
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	3000 pcs.	

Dimensions (mm):

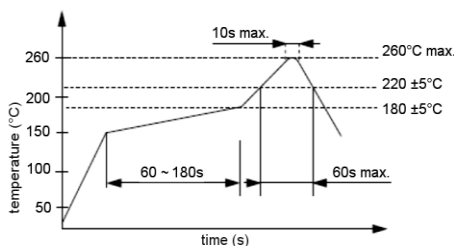


Pin	Connection
1	GND
2	GND
3	OUTPUT
4	V _{DD}

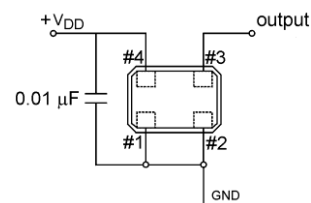
Suggested soldering pad:



Reflow soldering condition:



Test circuit:



Tape specification:

