



## VCTCXO clipped sine wave

SMD-version

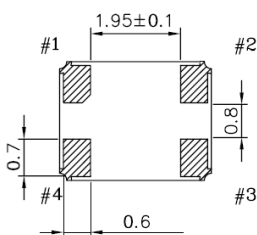
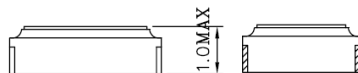
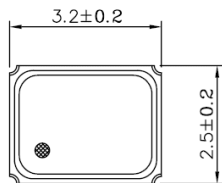
+1.8V / +2.8V / +3.3V

Voltage Controlled Temperature Compensated Crystal Oscillator

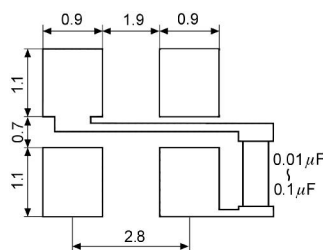
part no.	12.xxxxx	
model	KXO-84	
frequency range	10.0 ~ 40.0 MHz*	
initial frequency tolerance max.	±1.5 ppm	
frequency stability	vs. temp.range	±2.5 ppm over -30°C ~ +75°C (referred to +25°C)
	vs. input voltage	±0.3 ppm at V <sub>DD</sub> ±5%
	vs. load max.	±0.2 ppm
	vs. aging max.	±1 ppm / year at +25°C
output	load	10k Ohm ±10% // 10pF ±10%
	voltage min.	0,8Vp-p at 10 k Ohm // 10 pF
	waveform	clipped sine wave
operating temperature range	-30°C ~ +75°C	
storage temperature	-40°C ~ +85°C	
supply voltage range	+1.6V ~ +3.6V	
input voltage V <sub>DD</sub>	+1.8V DC ±5%, +2.8V DC ±5% or +3.3V DC ±5%	
input current max.	1,5 mA (no load)	
start-up time max.	3 ms	
harmonics max.	-5.0 dBc	
frequency control voltage (VC)	½ V <sub>DD</sub> ±1V DC	
frequency adjustment (pullability) max.	±12ppm	
phase noise max.	-80 dBc/Hz at 10 Hz -110 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -145 dBc/Hz at 10 kHz -150 dBc/Hz at 100 kHz -150 dBc/Hz at 1 MHz	
contents of reel	1000 pcs.	

\* Standard frequencies: 12.80, 12.2880, 16.3690, 16.80, 19.20, 20.00, 26.00, 27.00, 30.00, 32.00, 38.40 and 40.00

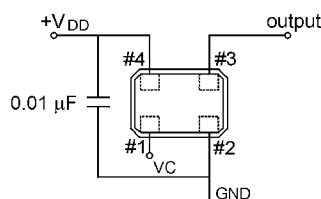
### Dimensions (mm):



### Suggested soldering pad:

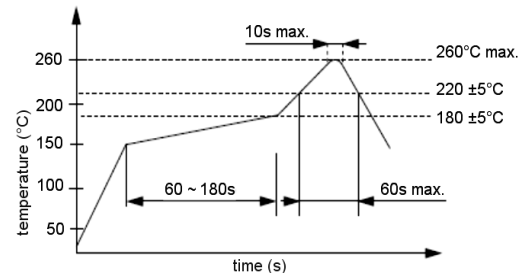


### Test circuit:



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

### Reflow soldering condition:



### Tape specification:

