



## VCXO HCMOS

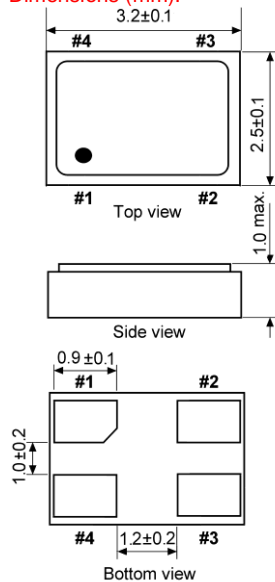
SMD-version

+1.8 / +2.5 / +3.3 V

Voltage Controlled Crystal Oscillator

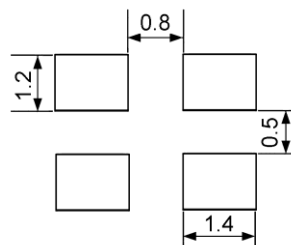
part no.		12.xxxxx		
model		KXO-77		
frequency range		4.0 ~ 54.0 MHz	4.0 ~ 54.0 MHz	1.0 ~ 170.0 MHz
supply voltage V <sub>DD</sub>		+1.8 V DC	+2.5 V DC ±5 %	+3.3 V DC ±5 %
frequency control voltage (PIN1)		0.9 V±0.6 V	1.25 V±1.05 V	1.65 V±1.35 V
frequency stability	over all parameters	±25, ±50, ±100 ppm over -20°C ~ +70°C / -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		+1.8 ~ +3.3 V		
supply current max., 2 mA typical (27 MHz, 3.3 V)		7 mA	7 mA	35 mA
start-up time max.		5 ms		
symmetry		40 % / 60 % at ½ V <sub>DD</sub> level		
rise and fall time max.		10 ns		
frequency adjustment (pullability) min.		±50 ppm ~ ±100 ppm		
phase jitter max.		1.0 ps RMS		
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):**

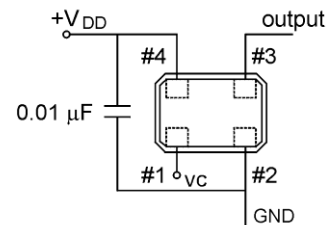


Pin	Connection
1	VC
2	GND
3	OUTPUT
4	V <sub>DD</sub>

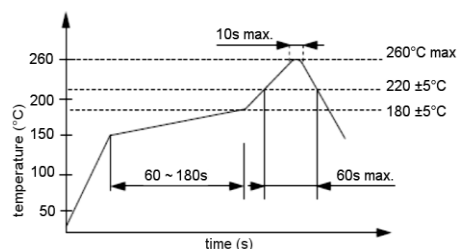
**Suggested soldering pad:**



**Test circuit:**



**Reflow soldering condition:**



**Tape specification:**

