

VCTCXO clipped sine wave

SMD-version

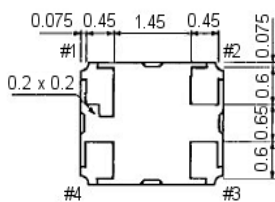
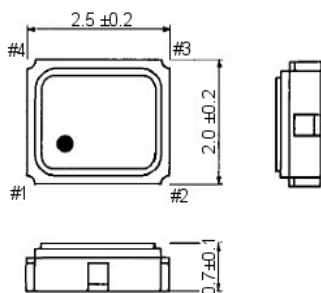
+2.5V / +3.3V

Voltage Controlled Temperature Compensated Crystal Oscillator

part no.		12.xxxxx
model		KXO-86
frequency range		13.0 ~ 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 _{DD} ±5%
	vs. load max.	±0.2 ppm
	vs. aging max.	±1.0 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		1.6 ~ 3.6V
input voltage V _{DD}		+2.5V DC ±5% and +3.3V DC ±5%
input current max.		1.5 mA (no load)
start-up time max.		2 ms
frequency control voltage (VC)		½ V _{DD} ±1V DC
frequency adjustment (pullability)		±9 ppm ~ ±15 ppm
reflow frequency change		± 1.0ppm after reflow (at +25°C ± 2°C)
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		2000 pcs.

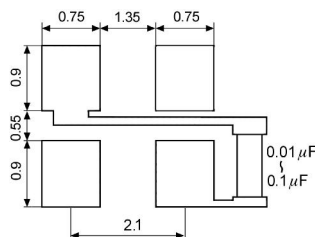
* Standard frequencies 13.0 MHz 16.0 MHz 16.3690 MHz 19.20 MHz 26.0 MHz 38.40 MHz 40.0 MHz

Dimensions (mm):

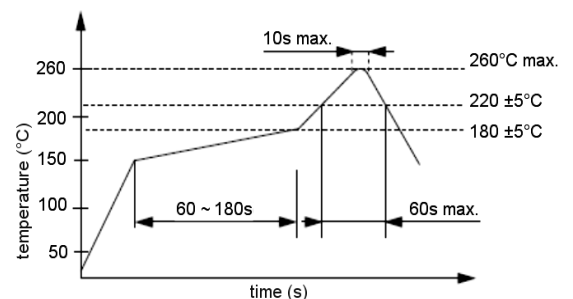


PIN	Connection
1	VC
2	GND
3	OUTPUT
4	V _{DD}

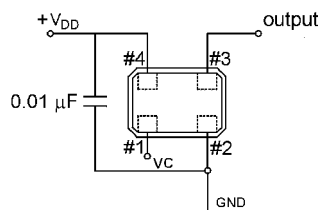
Suggested soldering pad:



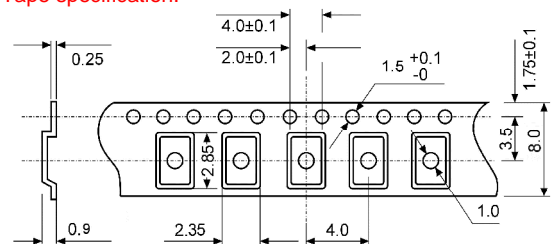
Reflow soldering condition:



Test circuit:



Tape specification:



reel diameter 180 mm