



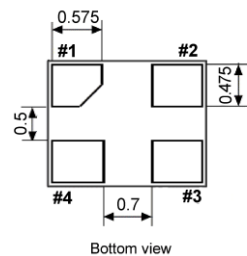
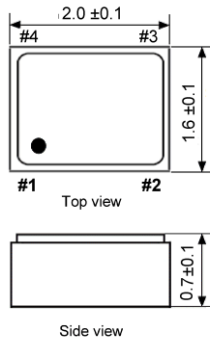
TCXO HCMOS

SMD-version +1.8 / +2.5 / +3.3 V

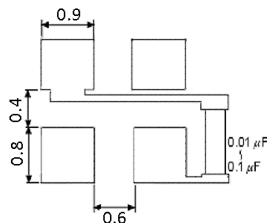
Temperature Compensated Crystal Oscillator

part no.	12.xxxxx	
model	KXO-81	
frequency range	9.5 ~ 60.0 MHz	
frequency tolerance max.	±2.0 ppm ((after 2 reflows)	
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 %
	vs. load max.	±0.2 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	-55°C ~ +125°C	
supply voltage V _{DD}	+1.8 V DC ±5 %; +2.5 V DC ±5 % or +3.3 V DC ±5 %	
supply current max.	10 mA (no load)	
start-up time max.	10 ms	
symmetry	45 % / 55 % at ½ V _{DD} level	
rise and fall time max.	5 ns (10 % V _{DD} ~ 90 % V _{DD} level)	
"0" level max.; "1" level min.	V _{OL} : 10 % V _{DD} ; V _{OH} : 90 % V _{DD}	
phase noise max.	-75 dBc/Hz at 10 Hz -105 dBc/Hz at 100 Hz -125 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	3000 pcs.	

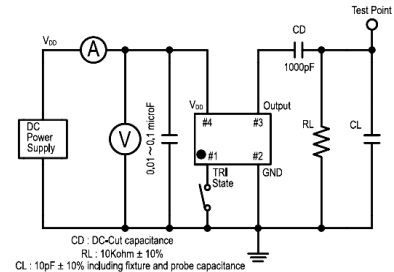
Dimensions (mm):



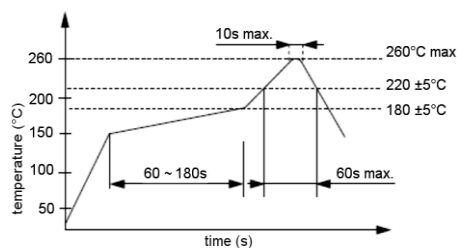
Suggested soldering pad:



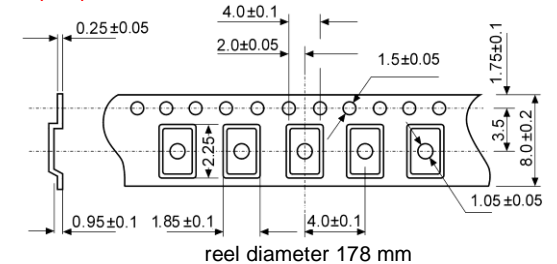
Test circuit:



Reflow soldering condition:



Tape specification:



Pin	Connection
1	„L“ Open or „H“
2	GND
3	Z OUTPUT
4	V _{DD}

Z: High Impedance