

TCXO HCMOS

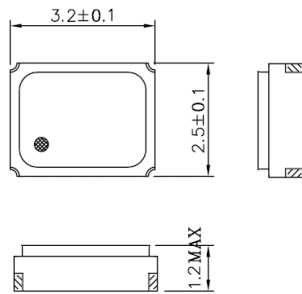
SMD-version

+3.3V

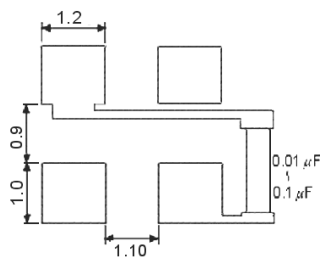
Temperature Compensated Crystal Oscillator

part no.	12.97562	
model	KXO-84	
frequency	24.0 MHz	
initial frequency tolerance max.	±2 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 % DC
	vs. load max.	±0.2 ppm
	vs. aging max.	±1 ppm / year at +25°C
output	load	15 pF
	waveform	HCMOS
operating temperature range	-30°C ~ +75°C	
storage temperature range	-40°C ~ +85°C	
input voltage V _{DD}	+3.3V DC ±5%	
input 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.	V _{OL} : 10% V _{DD}	
"1" level min.	V _{OH} : 90% V _{DD}	
reflow frequency change	±1.0 ppm 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	1000 pcs.	

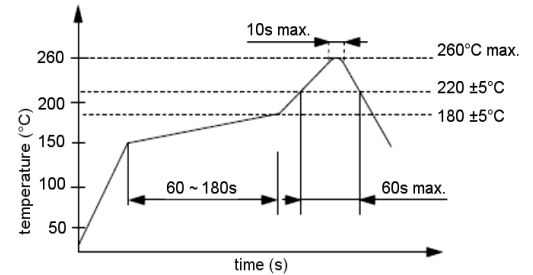
Dimensions (mm):



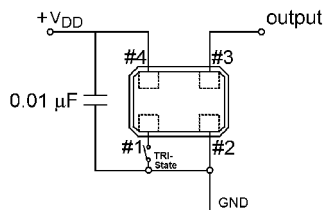
Suggested soldering pad:



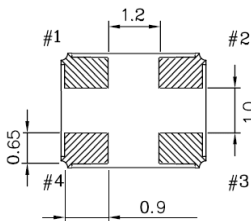
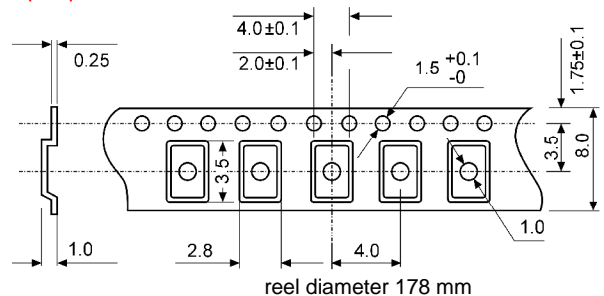
Reflow soldering condition:



Test circuit:



Tape specification:



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

Z: High Impedance