



VCXO HCMOS

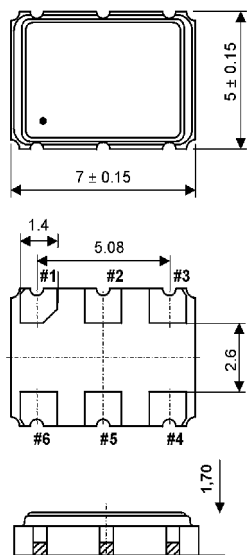
SMD-version

+3.3V

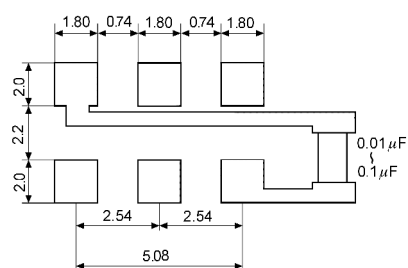
Voltage Controlled Crystal Oscillator

part no.	12.96745
model	KXO-75R
frequency	24.5760 MHz
frequency stability	over all parameters including initial tolerance, operating temperature range, supply voltage, load change, shock and vibration ± 50 ppm over $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (referred to $+25^{\circ}\text{C}$)
output	load 15 pF waveform HCMOS
aging	± 2 ppm tpy. first year (referred to $+25^{\circ}\text{C}$) ± 10 ppm max. over 10 years (referred to $+25^{\circ}\text{C}$)
operating temperature range	$0^{\circ}\text{C} \sim +70^{\circ}\text{C}$
storage temperature range	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
input voltage V_{DD}	$+3.3\text{V DC} \pm 10\%$
input current max.	15 mA (no load)
start-up time max.	10 ms
symmetry	50% at $\frac{1}{2} V_{DD}$ level
rise and fall time max.	5 ns
"0" level max.	$V_{OL}: 10\% V_{DD}$
"1" level min.	$V_{OH}: 90\% V_{DD}$
E/D function Pin 2 open or $V_{DD} \times 0,9$ min.	oscillation
E/D function Pin 2 $V_{DD} \times 0,1$ max.	output disabled to High Z
frequency control voltage	$+1.65\text{V} \pm 1.35\text{V}$
APR min.	± 100 ppm
input impedance min.	50k Ohm
RMS phase jitter max. (12 kHz $\sim$ 20 MHz)	1 ps
phase jitter one sigma max.	10 ps
phase noise typical	-70 dBc/Hz at 10 Hz -100 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -147 dBc/Hz at 10 kHz -152 dBc/Hz at 100 kHz -155 dBc/Hz at 1 MHz
linearity	20% max., positive slope
contents of reel	1000 pcs.

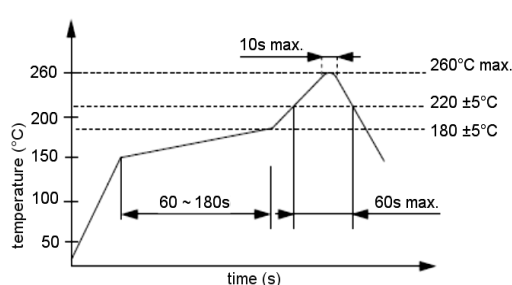
Dimensions (mm):



Suggested soldering pad:



Reflow soldering condition:



Test circuit:

