



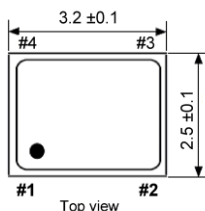
## TCXO HCMOS

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

Temperature Compensated Crystal Oscillator

part no.		12.xxxxx
model		KXO-84
frequency range		8.0 ~ 70.0 MHz
frequency tolerance max.		±2 ppm (after 2 reflows)
frequency stability	vs. temp.range	±2.5 ppm over -40°C ~ +85°C (referred to +25°C)
	vs. input voltage	±0.2 ppm at V <sub>DD</sub> ±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		-40°C ~ +85°C
storage temperature range		-55°C ~ +125°C
supply voltage range		1.8 V ~ 3.3 V
supply voltage V <sub>DD</sub>		+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 <sub>DD</sub> level
rise and fall time max.		5 ns (10 % V <sub>DD</sub> ~ 90 % V <sub>DD</sub> level)
"0" level max.; "1" level min.		V <sub>OL</sub> : 10 % V <sub>DD</sub> ; V <sub>OH</sub> : 90 % V <sub>DD</sub>
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.

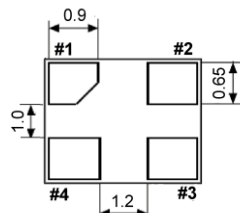
### Dimensions (mm):



Top view



Side view

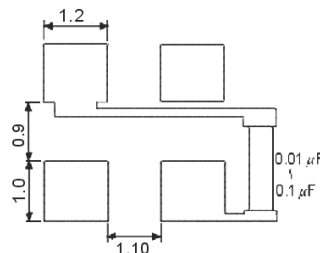


Bottom view

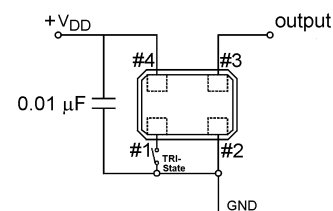
Pin	Connection
1	„L“ Open or „H“
2	GND
3	Z OUTPUT
4	V <sub>DD</sub>

Z: High Impedance

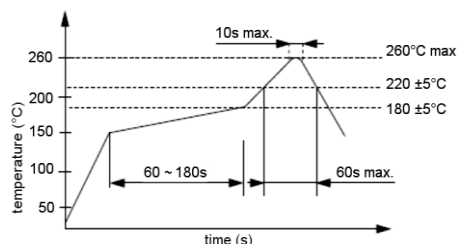
### Suggested soldering pad:



### Test circuit:



### Reflow soldering condition:



### Tape specification:

