



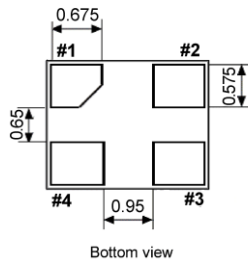
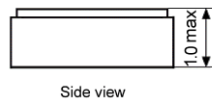
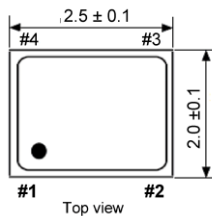
TCXO HCMOS

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

Temperature Compensated Crystal Oscillator

part no.		12.xxxxx
model		KXO-86
frequency range		13.0 ~ 54.0 MHz
initial 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) ±5 ppm over -40°C ~ +105°C (referred to +25°C)
	vs. input voltage	±0.3 ppm at V _{DD} ±5 % DC
	vs. load max.	±0.3 ppm
	vs. aging max.	±1 ppm / year at +25°C
output	load	15 pF
	waveform	HCMOS
operating temperature range		-40°C ~ +85°C standard -40°C ~ +105°C upon request
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.		8.0 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)
"O" level max.; "1" level min.		V _{OL} : 10 % V _{DD} ; V _{OH} : 90 % V _{DD}
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.

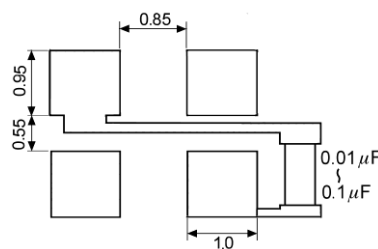
Dimensions (mm):



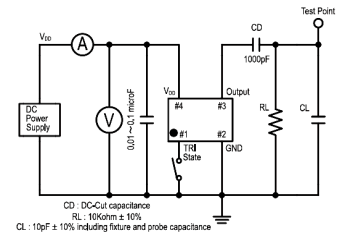
Pin	Connection
1	„L“ Open or „H“
2	GND
3	Z OUTPUT
4	V _{DD}

Z: High Impedance

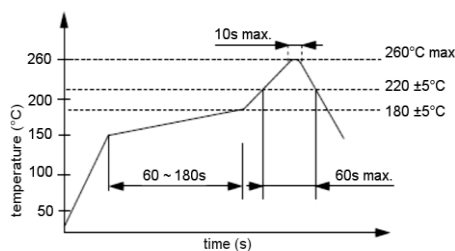
Suggested soldering pad:



Test circuit:



Reflow soldering condition:



Tape Specification:

