

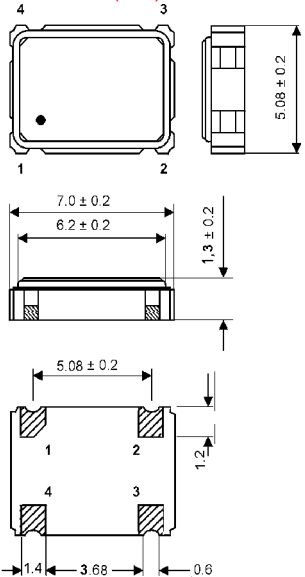


## Clock Oscillator

SMD-version 2.6V

part no.	12.xxxxx		
model	KXO-V97		
frequency range	1.8 ~ 50.0 MHz	50.1 ~ 120.0 MHz	120.1 ~ 140.0 MHz PLL technology
frequency stability at -20° ~ + 70°C at -40° ~ + 85°C at -40° ~ +105°C	± 50 ppm ±100 ppm ±120 ppm		
operating temperature	standard -20° ~ + 70°C available -40° ~ + 85°C (=KXO-V97T) available -40° ~ +105°C (=KXO-V97E)		
storage temperature	-55° ~ +125°C		
input voltage V <sub>DD</sub>	+2.6V DC ±10%		
input current max.	45 mA	50 mA	
symmetry	50% ±10% at 1.4V DC level or ½ V <sub>DD</sub> level		
rise & fall time max.	5 ns		
"0" level max.	+0.4V (TTL) +0.5V (CMOS)		+0.5V (HCMOS)
"1" level min.	+2.4 (TTL) V <sub>DD</sub> -0.5V (CMOS)		V <sub>DD</sub> -0.5V (HCMOS)
output load	10 TTL gates CMOS: 50 pF	5TTL 50 ~ 100 MHz gates 2TTL 100 ~ 120 MHz 25pF (50.1~100 MHz) 15pF (100.1~120 MHz)	30 pf
start up time max.	10 ms		4 ms
tri-state function	yes	no	yes
enable/disable delay time max.	50 µs		
reflow soldering cond.	10 seconds max. at + 240°C		
contens of reel	1000 pcs.		

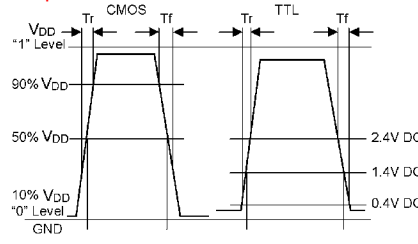
### Dimensions (mm):



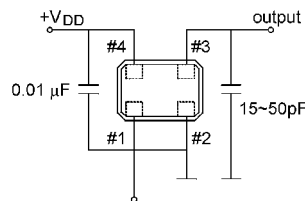
PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V <sub>DD</sub>

Z: high impedance

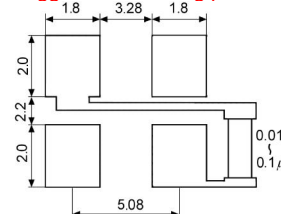
### Output waveform:



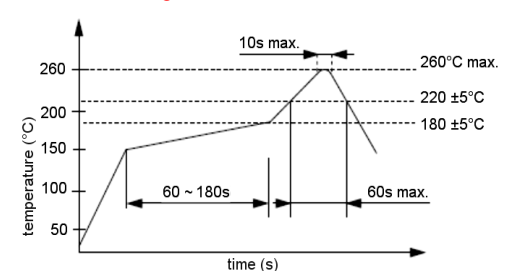
### Test circuit:



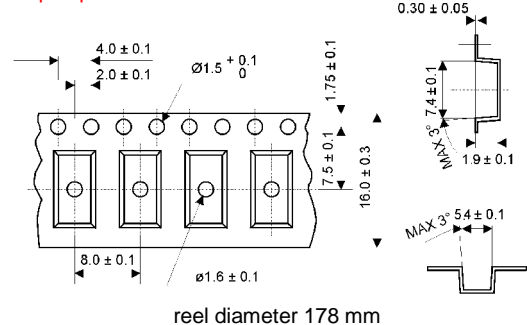
### Suggested soldering pad:



### Reflow soldering condition:



### Tape specification:



reel diameter 178 mm