



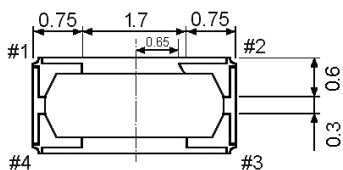
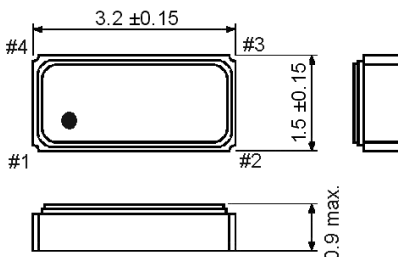
## Clock Oscillator SMD-version

+1.8V +2.5V +3.3V

part no.	12.xxxxx
model	KXO-V32T
frequency	32.768 kHz
frequency tolerance at +25°C	±3 ppm
frequency stability max. at -40° ~ +85°C	±20 ppm max., ±10 ppm typ.
operating temperature	-40° ~ +85°C
storage temperature	-40° ~ +105°C
symmetry	40/60% ± 10% at 30pF load
rise & fall time max.	40 ns at output level 10 ~ +90% with 30pF load
"0" level max.	VOL: 0.1 V <sub>DD</sub> max. IOL 0.1mA at V <sub>DD</sub> 1.5V
"1" level min.	VOH: V <sub>DD</sub> 0.9 V <sub>DD</sub> min. IOH -0.1mA at V <sub>DD</sub> 1.5V
input voltage V <sub>DD</sub>	+1.8V, +2.5V, +3.3V DC ±5%
tri-state control voltage (Pin#1)	VIH: V <sub>DD</sub> x 0,8 min. VIL: V <sub>DD</sub> x 0,2 max.
input current max.	1.3µA typ., 2.5µA max., at +3.3V, no load
output load max.	30pF (HCMOS)
start up time at +25°C max.	0,5 sec
contents of reel	3000 pcs

\* When the supply voltage drops to 1.5 or less, the frequency compensation is inactive. The compensation interval is 2 sec.

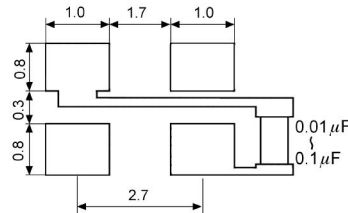
### Dimensions (mm):



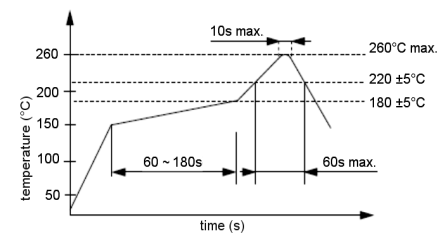
PIN	CONNECTION
1	"L" "H"
2	GND
3	OUTPUT
4	V <sub>DD</sub>

Z: high impedance

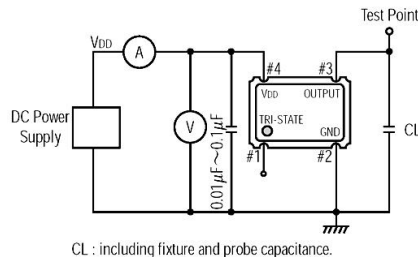
### Suggested soldering pad:



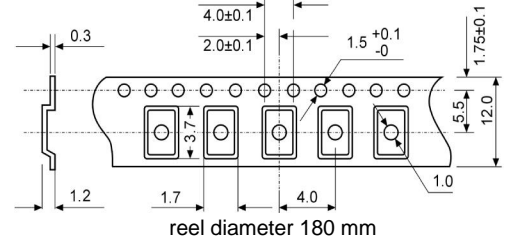
### Reflow soldering condition:



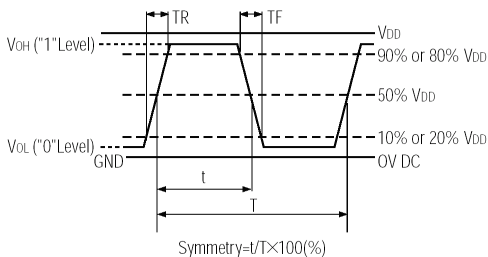
### Test circuit:



### Tape specification:



### Output waveform:



### Temperature characteristic (for reference only 3.3V):

