

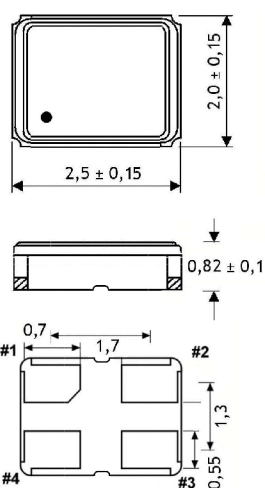


## Clock Oscillator SMD-version

+1,8 / +2,5 / +3,0 / +3,3V

model	KXO-V95			
frequency range	1,0 ~ 70,0 MHz			
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-V95T) available -40° ~ +105°C (=KXO-V95E)			
storage temperature	-40° ~ +85°C			
symmetry	40% ~ 60% at 50% V <sub>DD</sub> level			
rise & fall time max.	10 ns (10% V <sub>DD</sub> ~ 90% V <sub>DD</sub> level)			
"0" level max.	VOL: 10% V <sub>DD</sub>			
"1" level min.	VOH: 90% V <sub>DD</sub>			
input voltage V <sub>DD</sub>	+1,8 ~ +3,3V ±5%			
tri-state control voltage (Pin#1)	VIH: V <sub>DD</sub> x 0,7 min. VIL: V <sub>DD</sub> x 0,3 max.			
supply voltage	-0,5V ~ +7,0V			
input current max.		+1,8V	+2,5V	+3,0V/+3,3V
	1,0 ~ 20,0MHz	3,5 mA typ., 6, 0mA max.	4,0 mA typ., 6,0 mA max.	4,0 mA typ., 6,0 mA max.
	20,1 ~ 50,0MHz	4,5 mA typ., 6,0 mA max.	4,0 mA typ. 11,0 mA max.	6,0 mA typ 11,0 mA max.
	50,1 ~ 70,0MHz	6,0 mA typ. 11,0 mA max.	6,0 mA typ. 11,0 mA max.	9,0 mA typ. 16,0 mA max.
output load max.	15pF (HCMOS)			
start up time max.	10 ms			
disable delay time max.	150 ns			
enable delay time max.	10 ms			
stand by current max.	50 µA (Pin #1=VIL)			
jitter	deterministic jitter random jitter	5ps max. 7ps max.	norm 1-sigma peak to peak	7ps max. 40ps max.
AECQ 200	available			
contents of reel	1000 pcs. / 3000 pcs.			
part no.	12.xxxxx			

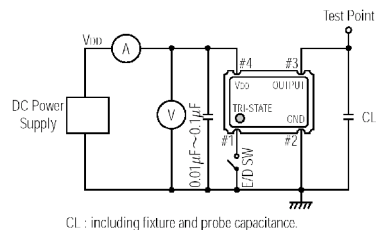
### Dimensions (mm):



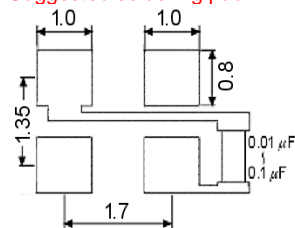
PIN	CONNECTION
1	"L" OPEN or "H"
2	GND
3	Z OUTPUT
4	V <sub>DD</sub>

Z: high impedance

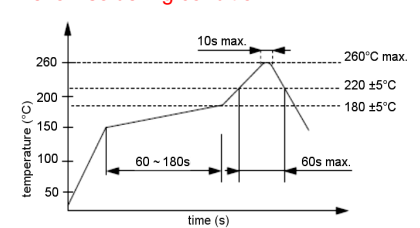
### Test circuit:



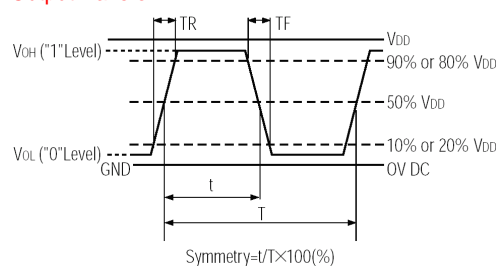
### Suggested soldering pad:



### Reflow soldering condition:



### Output waveform:



### Tape specification:

