



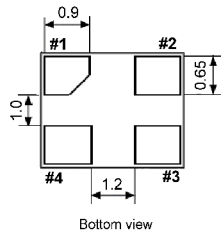
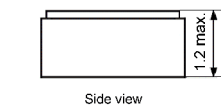
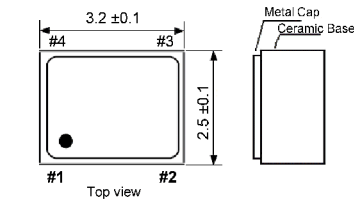
## Clock Oscillator SMD-version

+3.3 V

part no.	12.95219		
model	KXO-V96T		
frequency	8.0 MHz		
frequency stability at -40° ~ +85°C	±25 ppm		
operating temperature	-40° ~ +85°C		
storage temperature	-50° ~ +125°C		
supply voltage range	+1.8 V ~ +3.3 V		
input voltage V <sub>DD</sub>	+3.3 V DC ±5 %		
input current	4.0 mA typ., 6.0 mA max.		
symmetry	40 % ~ 60 % at ½ V <sub>DD</sub> level		
rise & fall time max.	5 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>		
stand-by control voltage (pin#1)	VIH (min): 70 % V <sub>DD</sub> VIL (max): 30 % V <sub>DD</sub> *		
output load max.	15 pF 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 max.	deterministic jitter	5 ps	norm 1-sigma 7 ps
	random jitter	7 ps	peak to peak 40 ps
contents of reel	1000 pcs.		

\* Internal crystal oscillation to be halted (pin#1=VIL)

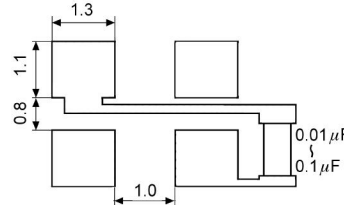
### Dimensions (mm):



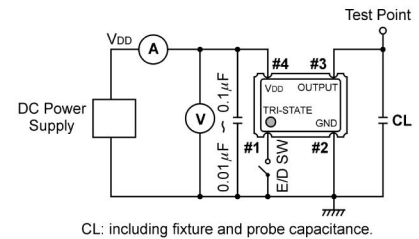
PIN	Connection
1	"L" (0V) "H" or OPEN
2	GND
3	Z OUTPUT
4	V <sub>DD</sub>

Z: high impedance

### Suggested soldering pad:

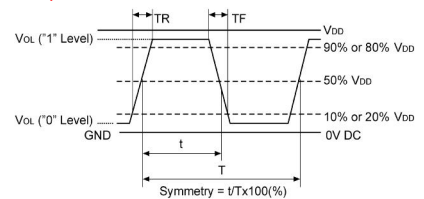


### Test circuit:

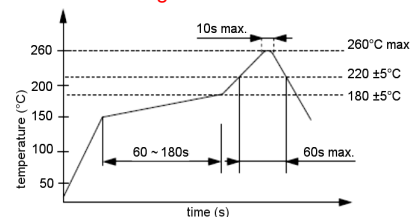


CL: including fixture and probe capacitance.

### Output Waveform:



### Reflow soldering condition:



### Tape specification:

