

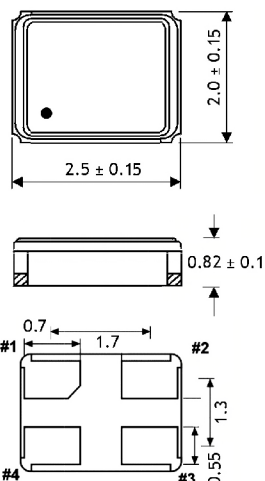


Clock Oscillator SMD-version

+1.8 / +2.5 / +3.0 / +3.3V

Part no.	12.xxxxx																			
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																			
supply voltage range	-0.5V ~ +7.0V																			
input voltage V _{DD}	+1.8V DC ±5%, +2.5V DC ±5%, +3.0V DC ±5% or +3.3V DC ±5%																			
input current	<table><tr><td></td><td>+1.8V</td><td>+2.5V</td><td>+3.0V/+3.3V</td></tr><tr><td>1.0 ~ 20.0MHz</td><td>3.5 mA typ., 6.0mA max.</td><td>4.0 mA typ., 6.0 mA max.</td><td>4.0 mA typ., 6.0 mA max.</td></tr><tr><td>20.1 ~ 50.0MHz</td><td>4.5 mA typ., 6.0 mA max.</td><td>4.0 mA typ.11.0 mA max.</td><td>6.0 mA typ 11.0 mA max.</td></tr><tr><td>50.1 ~ 70.0MHz</td><td>6.0 mA typ.11.0 mA max.</td><td>6.0 mA typ.11.0 mA max.</td><td>9.0 mA typ.16.0 mA max.</td></tr></table>					+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.
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symmetry	40% ~ 60% at ½ V _{DD} level																			
rise & fall time max.	10 ns (10% V _{DD} ~ 90% V _{DD} level)																			
"O" level max.	VOL: 10% V _{DD}																			
"1" level min.	VOH: 90% V _{DD}																			
tri-state control voltage (Pin#1)	VIH: V _{DD} x 0.7 min. VIL: V _{DD} x 0.3 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	5ps max.	norm 1-sigma	7ps max.																
	random jitter	7ps max.	peak to peak	40ps max.																
contents of reel	1000 pcs. / 3000 pcs.																			

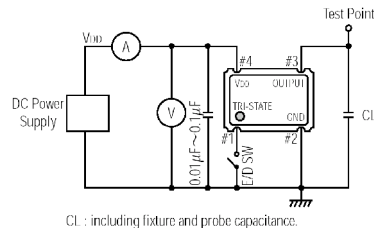
Dimensions (mm):



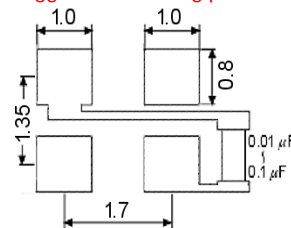
PIN	CONNECTION
1	"L" OPEN or "H"
2	GND
3	Z OUTPUT
4	V _{DD}

Z: high impedance

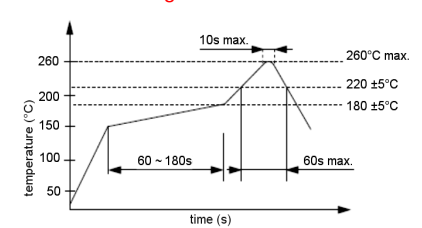
Test circuit:



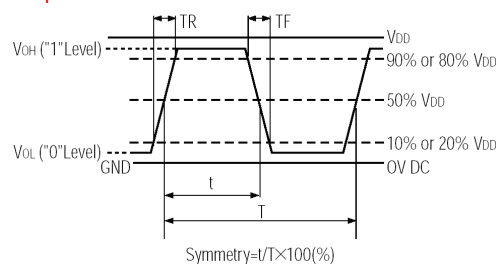
Suggested soldering pad:



Reflow soldering condition:



Output waveform:



Tape specification:

