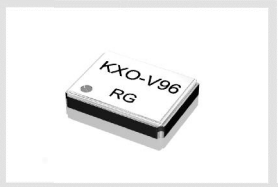


RoHS 2011/65/EU REACH compliant Conflict minerals free

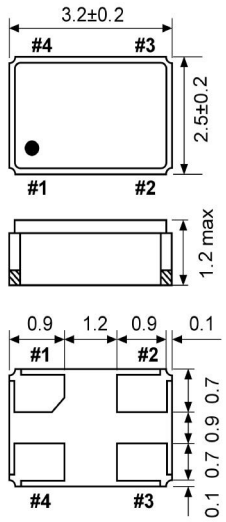
GEYER quartz technology

Clock Oscillator SMD-version +3,3V

model	KXO-V96T
frequency	32,0 MHz
frequency stability -40° ~ +85°C	± 50 ppm
operating temperature	-40° ~ +85°C
storage temperature	-50° ~ +125°C
symmetry	40% ~ 60% at 50% V_{DD} level
rise & fall time max.	5 ns (10% V_{DD} ~ 90% V_{DD} level)
"O" level max.	VOL: 10% V_{DD}
"1" level min.	VOH: 90% V_{DD}
input voltage V_{DD}	+3,3V ±5%
stand-by control voltage (pin#1)	VIH(min): 70% V_{DD} VIL(max): 30%V_{DD}*
supply voltage	-0,5V ~ +7,0V
input current	6,0 mA typ., 11,0 mA max. (pin #1=Open or VIH)
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	deterministic jitter 5ps max. random jitter 7ps max. norm 1-sigma 7ps max. peak to peak 40ps max.
contents of reel	1000 pcs.
part no.	12.95103

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

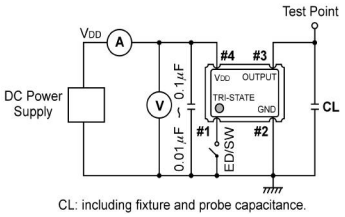
Dimensions (mm):



PIN	CONNECTION	
1	"L"	OPEN or "H"
2	GND	
3	Z	OUTPUT
4	VDD	

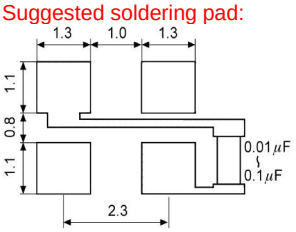
Z: high impedance

Test circuit:

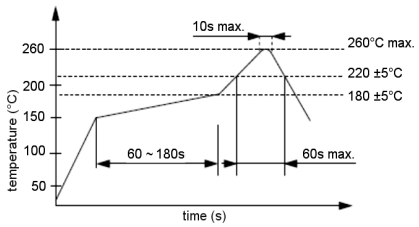


CL: including fixture and probe capacitance.

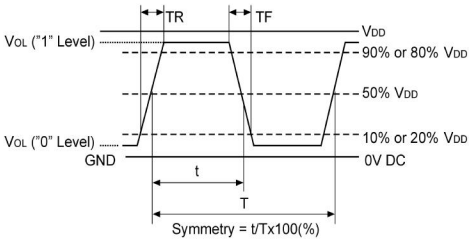
Suggested soldering pad:



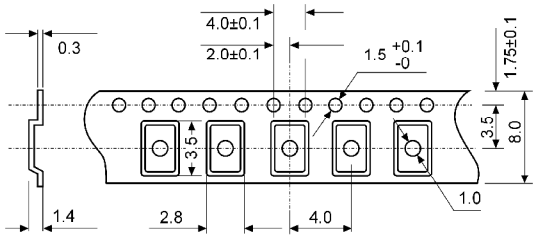
Reflow soldering condition:



Output waveform:



Tape specification:



reel diameter 245 mm

GEYER ELECTRONIC e.K. Lochhamer Schlag 5 82166 Gräfelfing/München
Tel. +49 89 546868-0 quartz@geyer-electronic.de www.geyer-electronic.de