RoHS 2015/863/EU compliant | REACH compliant | Conflict minerals free

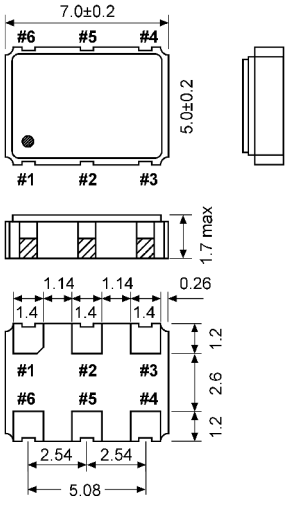
GEYER quartz technology

LVDS VCXO

SMD-version 2.5 / 3.3V

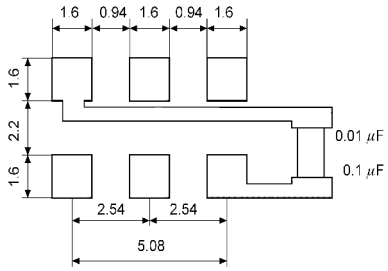
part no.	12.xxxxx
model	KXO-V63
frequency range	20.0 ~ 700.0 MHz
frequency stability incl. temperature stability input voltage and load stability, aging.	±25ppm ~ ±100ppm over -20° ~ +70°C (referred at 25°C) ±25ppm ~ ±100ppm over -40° ~ +85°C (referred at 25°C)
output load	100 Ohm
operating temperature	standard -20° ~ +70°C available -40° ~ +85°C (=KXO-V63T)
storage temperature	-40° ~ +125°C
input voltage	+2.5V DC ±5% or + 3.3V DC ±5%
input current	45 mA typ., 60 mA max.
start up time max.	10 ms
symmetry	50% of waveform
rise time (Tr)	400ps typ 850ps max. (20% ~ 80% of waveform)
fall time (Tf)	400ps typ 850ps max. (80% ~ 20% of waveform)
disable delay time max.	200 ns
enable delay time max.	4 ms
"O" level max.	0.9V ~ 1.1V
"1" level min.	1.43V ~ 1.6V
LVDS offset output voltage	1.125V ~ 1.375V
frequency adjustment (pullability)	±50ppm, ±100ppm
tristate function	yes
phase jitter (12kHz ~ 20MHz)	RMS: 1ps typ, 3ps max.
typical phase noise	-70 dBc/Hz at 10 Hz -105 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -145 dBc/Hz at 10 kHz -145 dBc/Hz at 100 kHz -145 dBc/Hz at 1 MHz
contents of reel	1000 pcs.

Dimensions (mm):

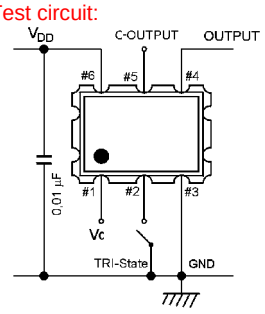


PIN	CONNECTION
1	VC
2	Tri-state
3	GND
4	Output
5	C-Output
6	V_{DD}

Suggested soldering pad:

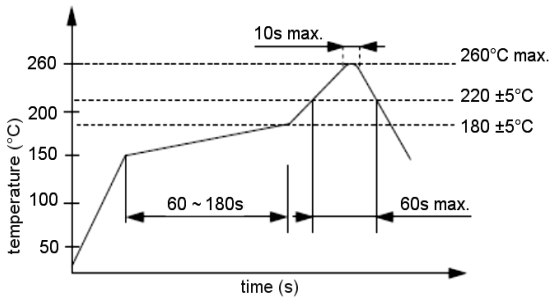


Test circuit:

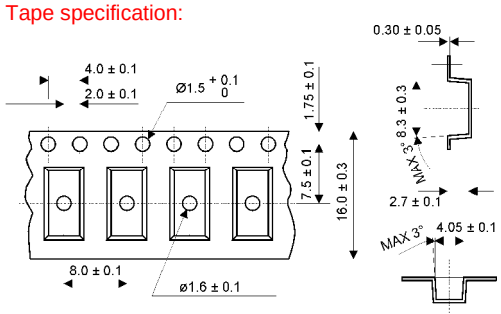


pin #2	pin #4 / pin #5
"L" (0 V) "H" (+3.3 V) or OPEN	HIGH IMPEDANCE (Z) OUTPUT

Reflow soldering condition:



Tape specification:



reel diameter 330 mm

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