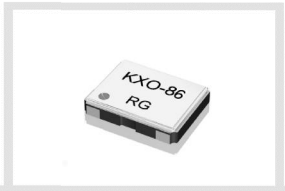


RoHS 2011/65/EU compliant | REACH compliant | Conflict minerals free

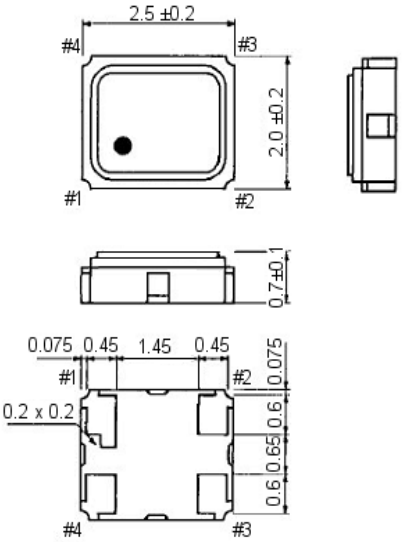
GEYER quartz technology

TCXO clipped sine wave SMD-version +2.5 / +2.8 / +3.0V

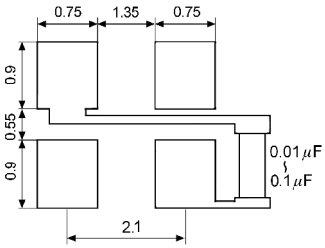
Temperature Compensated Crystal Oscillator

part no.		12.xxxxx
model		KXO-86
frequency range		13.0 ~ 40.0 MHz
initial frequency tolerance max.		±1.5ppm
frequency stability	vs. temp.range	±2.5 ppm over -30°C ~ +75°C (referred to +25°C)
	vs. input voltage	±0.2 ppm at V_{DD} ±5%
	vs. load max.	±0.2 ppm
	vs. aging max.	±1.0 ppm / year at +25°C
output	load	10k Ohm ±10% // 10pF ±10%
	voltage min.	0.8Vp-p at 10 k Ohm // 10 pF
	waveform	clipped sine wave
operating temperature range		-30°C ~ +75°C
storage temperature range		-40°C ~ +85°C
supply voltage range		1.6V ~ 3.6V
input voltage V_{DD}		+2.5V DC ±5%, +2.8V DC ±5% or +3.0V DC ±5%
input current max.		1.5 mA (no load)
start-up time max.		3 mS (Vout≧90%Vp-p) 4 mS (within ±2.5ppm)
phase noise max.		-80 dBc/Hz at 10 Hz -110 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -145 dBc/Hz at 10 kHz -150 dBc/Hz at 100 kHz -150 dBc/Hz at 1 MHz
contents of reel		2000 pcs.

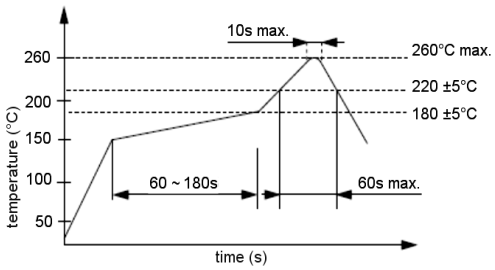
Dimensions (mm):



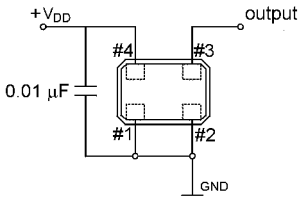
Suggested soldering pad:



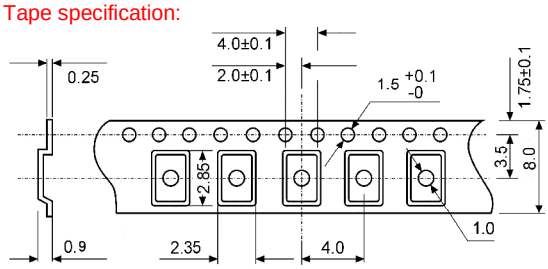
Reflow soldering condition:



Test circuit:



Tape specification:



reel diameter 178 mm

PIN	Connection
1	GND
2	GND
3	OUTPUT
4	V_{DD}

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