



## TCXO clipped sine wave

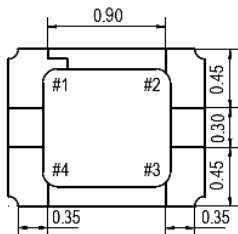
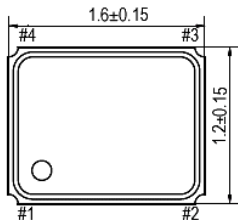
SMD-version

+1.8V / +3.3V

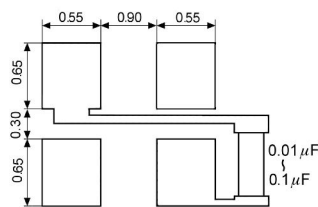
Temperature Compensated Crystal Oscillator

part no.	12.xxxxx	
model	KXO-88	
frequency	26.0 ~ 52.0 MHz	
initial frequency tolerance max.	±1.5 ppm	
frequency stability	vs. temp. range max.	±0.5 ppm over -30°C ~ +85°C (referred to +25°C)
	vs. input voltage max.	±0.2 ppm at V <sub>DD</sub> ±5%
	vs. load max.	±0.2 ppm
	vs. aging max.	±1 ppm / year at +25°C
output	load	10k Ohm ±10% // 10pF ±10%
	voltage min.	0.8Vp-p at 10 k Ohm // 10 pF ±10%
	waveform	clipped sine wave
operating temperature range	-30°C ~ +85°C	
storage temperature range	-40°C ~ +85°C	
supply voltage range	+1.8V ~ 3.6V	
max. ratings	-0.6V to V <sub>DD</sub> +0.6V (+4.6V max.)	
input voltage V <sub>DD</sub>	+1.8V DC ±10%, +3.3V DC ±10%	
input current max.	1.5 mA (no load)	
start-up time max.	2 ms	
reflow frequency change	±1.5 ppm after reflow (at +25°C ±2°C)	
phase noise max.	-115 dBc/Hz at 100 Hz -130 dBc/Hz at 1 kHz -150 dBc/Hz at 10 kHz -155 dBc/Hz at 100 kHz	
contents of reel	2000 pcs.	

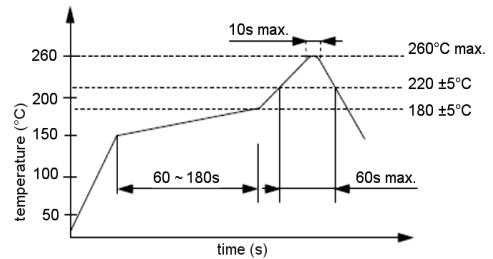
### Dimensions (mm):



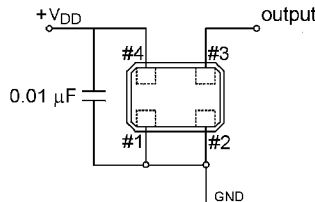
### Suggested soldering pad:



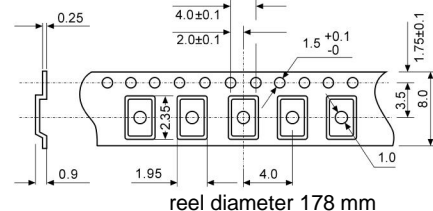
### Reflow soldering condition:



### Test circuit:



### Tape specification:



Pin	Connection
1	GND
2	GND
3	OUTPUT
4	V <sub>DD</sub>