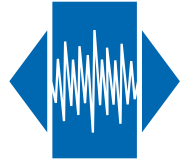


# SMX-1CL

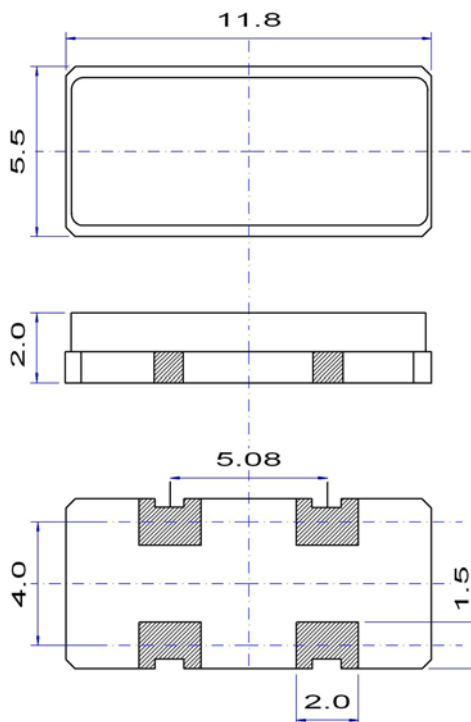


## Full ceramic SMD Crystal

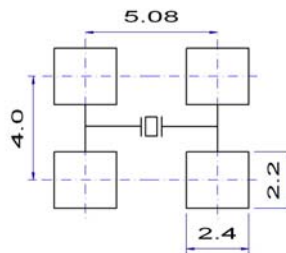
### Features

- Applications: telecommunications, audio, automotive, instruments
- Low package height of 2.0 mm Max.
- Reliable, low cost crystal
- Reflow soldering @ 260 °C

Parameter	Specification	
Frequency range	3.2 ~ 36 MHz 40 ~ 70 MHz	fundamental 3 <sup>rd</sup> overtone
Mode of oscillation	AT-cut	
Standard frequencies	3.579545, 3.6864, 9.216, 13.824, 16.00 & 16.384 MHz	
Frequency tolerance	±25 ~ ±50 ppm	@ +25 °C
Frequency stability	±10 ~ ±50 ppm	vs. operating temperature range
Aging	±3 ppm	1 <sup>st</sup> year
Load capacitance	series or parallel resonance (CL = 8 ~ 32 pF)	
Equivalent series resistance (ESR)	< 75 Ω < 25 Ω	@ 3.6864 MHz @ 16.00 MHz
Drive level	10 ~ 100 μW	
Operating temperature range	-20 ~ +70 °C -40 ~ +85 °C -40 ~ +125 °C	commercial application industrial application automotive application
Storage temperature range	-55 ~ +125 °C	
Packaging unit	tape & reel	1'000 pieces
Customer specifications on request		

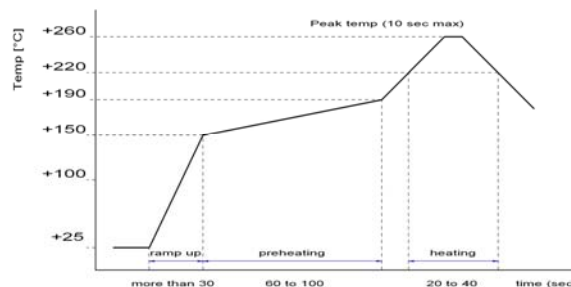


Example for soldering pattern



*Do not design any conductive path between the pattern*

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant