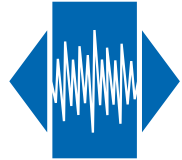


# SMX-2C



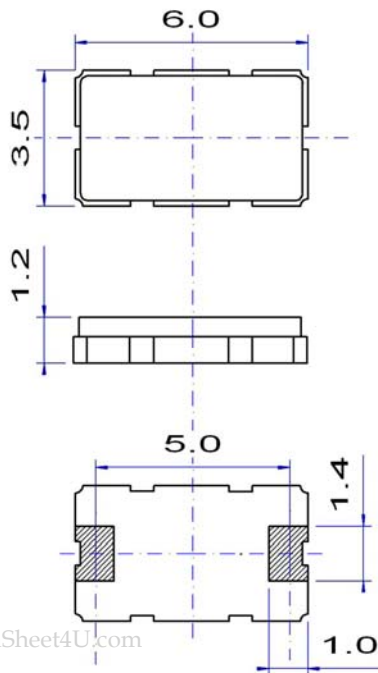
## Full ceramic SMD Crystal

### Features

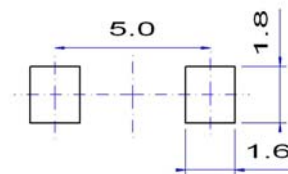
- Applications: telecommunications, audio, automotive, instruments
- Small package size
- Reliable, low cost crystal
- Reflow soldering @ 260 °C

Parameter	Specification	
Frequency range	10 ~ 50 MHz 50 ~ 67 MHz	fundamental 3 <sup>rd</sup> overtone
Mode of oscillation	AT-cut	
Standard frequencies	10.00, 12.00, 16.00, 27.134375, 29.4912 & 32.00 MHz	
Frequency tolerance	±25 ~ ±50 ppm	@ +25 °C
Frequency stability	±10 ~ ±50 ppm	vs. operating temperature range
Aging	±2 ppm	1 <sup>st</sup> year
Load capacitance	series or parallel resonance (CL = 8 ~ 32 pF)	
Equivalent series resistance (ESR)	< 25 Ω < 15 Ω	@ 13 MHz @ 32 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 or 2'000 pieces
Customer specifications on request		

### Example for soldering pattern

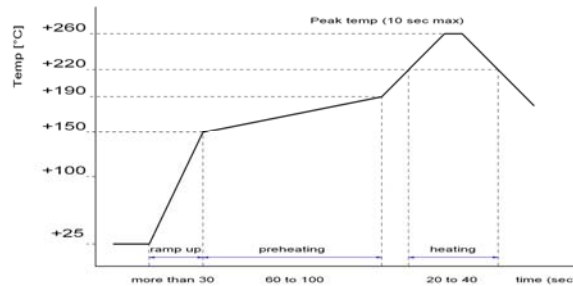


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**Do not design any conductive path between the pattern**

### Example for IR reflow soldering temperature



2002/95/EC RoHS compliant