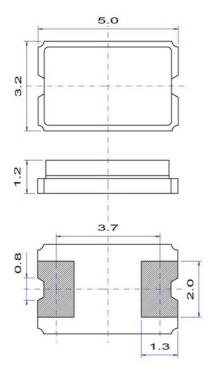
## SMX-3C



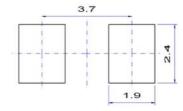
## Full ceramic SMD Crystal

Features	:	Applications: telecommunications, audio, automotive, instruments Small package size Reliable, low cost crystal Reflow soldering @ 260 °C
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Parameter	Specification			
Frequency range	8 ~ 67 MHz	fundamental		
Mode of oscillation	AT-cut			
Standard frequencies	8.00, 13.00, 16.00, 19.20, 20.00, 24.576, 25.00 & 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)	< 12 Ω	@ 16 MHz		
	< 10 Ω	@ 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				

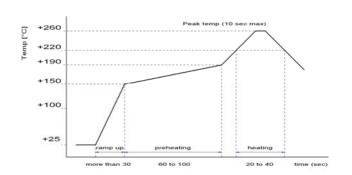


## Example for soldering pattern



## Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

03 May. 10