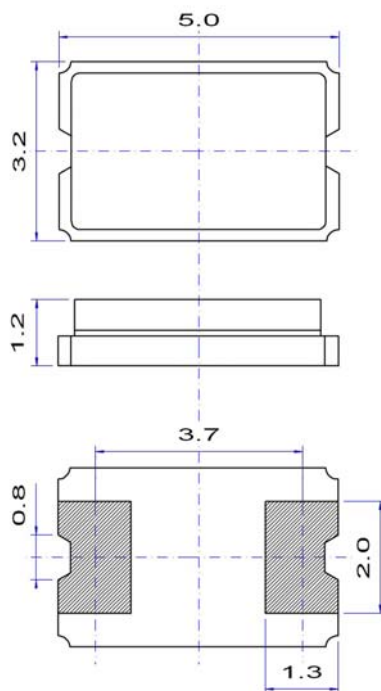


Full ceramic SMD Crystal

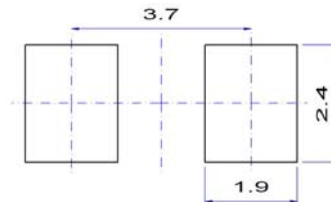
Features

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

Parameter	Specification	
Frequency range	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	$\pm 25 \sim \pm 50$ ppm	@ +25 °C
Frequency stability	$\pm 10 \sim \pm 50$ ppm	vs. operating temperature range
Aging	± 2 ppm	1 st 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 μ W	
Operating temperature range	-20 ~ +70 °C	commercial application
	-40 ~ +85 °C	industrial application
	-40 ~ +125 °C	automotive application
Storage temperature range	-55 ~ +125 °C	
Packaging unit	tape & reel	1'000 or 2'000 pieces
Customer specifications on request		

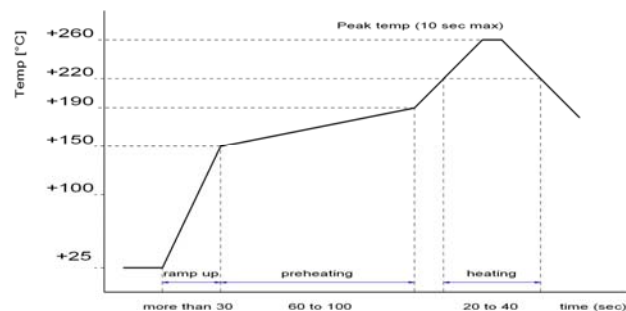


Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

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ISO 9001
BUREAU VERITAS
Certification



03 May, 10