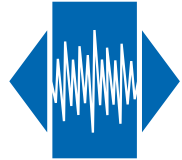


SMX-3F3

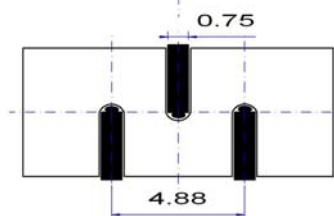
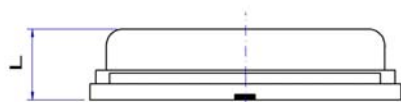
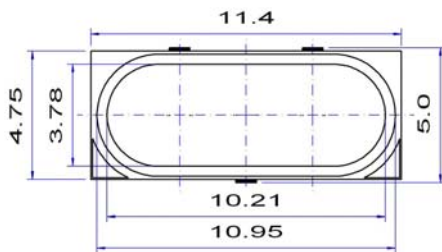
Highly reliable low cost crystal
Designed for automotive



Features

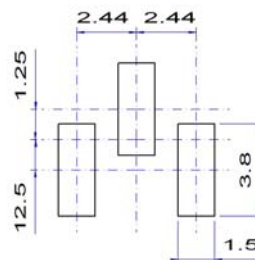
- Applications: telecommunications, audio, automotive, instruments
- Excellent environmental performance
- High reliable, low cost crystal
- Reflow soldering @ 260 °C

Parameter	Specification	
Frequency range	3.5 ~ 40 MHz fundamental	32 ~ 70 MHz 3 rd overtone
Mode of oscillation	AT-cut	BT-cut on request
Standard frequencies	3.579545, 3.6864, 4.096, 4.9152, 5.00, 7.20, 8.00, 10.3680 13.0133, 14.31818, 16.00, 20.00, 24.576 & 25.00 MHz	
Frequency tolerance	±10 ~ ± 50 ppm	@ +25 °C
Frequency stability	±10 ~ ±100 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)	< 75 Ω	3.6864 MHz
	< 12 Ω	24.576 MHz
Drive level	100 μW	
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 pieces
Customer specifications on request		



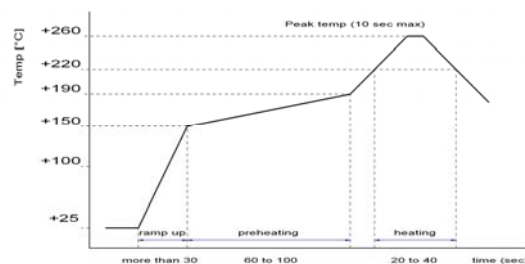
Height H: 2.5 to 4.5 mm Max.

Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant