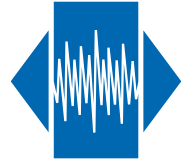


UM-1 MJ MESA

**High frequency fundamental
SMD Crystal**

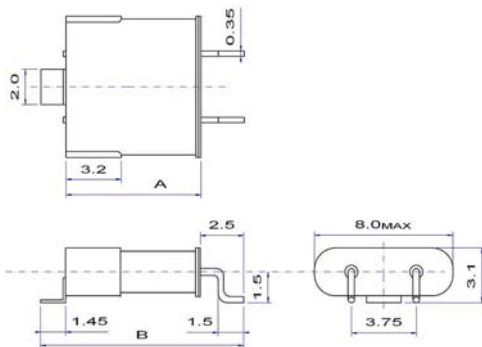
QuartzCom
the communications company



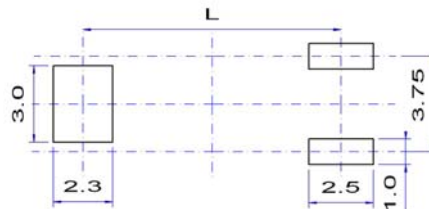
Features

- Applications: telecommunications, audio, instruments, VCXO
- Wide frequency range: 60 to 200 MHz in the fundamental mode
- High pulling sensitivity (ppm/pF)
- Reflow soldering @ 260 °C

Parameter	Specification	
Frequency range	60 ~ 200 MHz	fundamental
Mode of oscillation	AT cut	
Standard frequencies	76.80, 122.88, 155.52, 156.25, 159.375 & 180.00 MHz	
Frequency tolerance	±10 ~ ±30 ppm	@ +25 °C
Frequency stability vs. temperature	±10 ~ ±20 ppm	over -10 ~ +60 °C
	±25 ~ ±50 ppm	over -40 ~ +85 °C
Aging	±2 ppm 1 st year	
Load capacitance	series or parallel resonance (CL = 8 ~ 32 pF)	
Equivalent series resistance (ESR)	20 Ω Typ.	
Drive level	10 ~ 100 μW	
Operating temperature range	-20 ~ +70 °C	commercial application
	-40 ~ +85 °C	industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 or 1'000 pieces
Customer specifications on request		

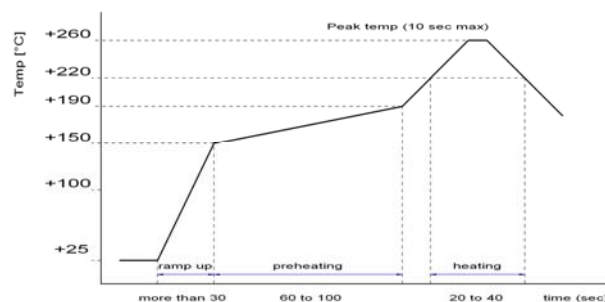


Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



Type	A	B	L
UM-1 MJ	8.0	12.0	10.8

[mm]



2002/95/EC RoHS compliant

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ISO 9001
BUREAU VERITAS
Certification



03 May, 10