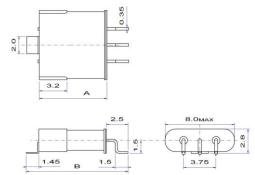
UM-4, UM-5, UM-1 MJ Slim



Metal packaged SMD Crystal

- Catalos	•	Applications: telecommunications, audio, navigation, instruments High frequency accuracy in stability and aging Wide frequency range: 8 to 250 MHz
	•	Reflow solder able

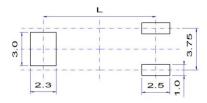
Parameter	Specification				
Frequency range	8 ~ 80 MHz 30 ~ 180 MHz 80 ~ 250 MHz	fundamental 3 rd overtone 5 th overtone			
Mode of oscillation	AT cut	3 rd & 5 th overtone			
Standard frequencies		10.00, 10.368, 15.36, 20.48, 20.945, 80.00, 100.00 125.00 & 155.52 MHz			
Frequency tolerance	±5 ~ ±20 ppm	@ +25 °C			
Frequency stability	±5 ~ ±20 ppm	vs. operating temperature range			
Aging	< ±1 ppm	1 st year			
Load capacitance	series or parallel res	series or parallel resonance (CL = 8 ~ 32 pF)			
Equivalent series resistance (ESR)	< 20 Ω < 12 Ω	@ 10 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 & avionic application			
Storage temperature range	-55 ~ +125 °C				
Packaging units	tape & reel	500 or 1'000 pieces			
Customer specifications on request					



Туре	Α	В	L
UM-1 MJ	8.0	12.0	10.8
UM-5 MJ	6.0	10.0	8.8
UM-4 MJ	4.4	8.4	7.2

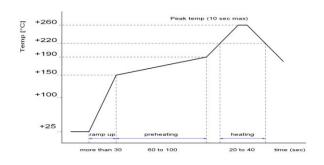


Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

[mm]