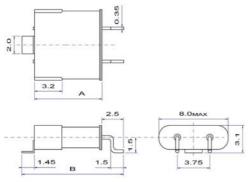
UM-4, UM-5, UM-1 MJ



Metal packaged SMD Crystal

Features	 Applications: telecommunications, audio, navigation, instrumer 	
	High frequency accuracy	in stability and aging
	Wide frequency range: 8	to 250 MHz
	Reflow solder able	

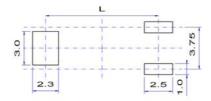
Parameter	Specification		
Frequency range	8 ~ 80 MHz 30 ~ 180 MHz 80 ~ 250 MHz	fundamental 3 rd overtone 5 th overtone	
Mode of oscillation	AT cut	3 rd & 5 th overtone	
Standard frequencies	10.00, 10.368, 15.36, 20.48, 20.945, 80.00, 100.00 125.00, 155.52 & 180.00 MHz		
Frequency tolerance	±5 ~ ±20 ppm	@ +25 °C	
Frequency stability	±5 ~ ±20 ppm	vs. operating temperature range	
Aging	< ±1 ppm	1 st year	
Load capacitance	series or parallel resonance (CL = 8 ~ 32 pF)		
Equivalent series resistance (ESR)	< 20 Ω	@ 10 MHz	
	< 12 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 & avionic application	
Storage temperature range	-55 ~ +125 °C		
Packaging unit	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
5.5(5)	SCIENT N		[mm]

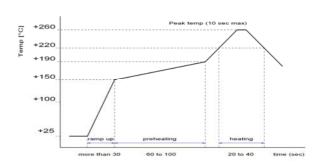


Example for soldering pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant



www.quartzcom.com