UM-1 MJ MESA

High frequency fundamental
SMD Crystal

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 1st 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

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>UM-1 MJ</td>
<td>8.0</td>
<td>12.0</td>
<td>10.8 [mm]</td>
</tr>
</tbody>
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