**MAMX-009722-25MHLP**

**E-Series Surface Mount Mixer**  
30-512 MHz  

**Features**
- LO Power +13 dBm
- Up to +9 dBm RF
- Surface Mount
- Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS* compliant

**Description**
MAMX-009722-25MHLP is a RoHS Compliant Low Cost, Broadband, high performance Double Double Balanced Mixer designed for use in high volume wireless applications. The device has been optimized by careful selection of the Schottky Diode and Balun Transformer for excellent performance. The MAMX-009722-25MHLP is available in an SM-89 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles. Parts are packaged in tape & reel.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMX-009722-25MHLP</td>
<td>Tape and Reel (900 piece Reel)</td>
</tr>
</tbody>
</table>

**Absolute Maximum Ratings**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Test Conditions</th>
<th>Frequency</th>
<th>Units</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Frequency</td>
<td>—</td>
<td>30 - 512</td>
<td>MHz</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>LO Frequency</td>
<td>—</td>
<td>1256.85 - 1738.85</td>
<td>MHz</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>IF Frequency</td>
<td>—</td>
<td>1226.85</td>
<td>MHz</td>
<td>—</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Conversion Loss</td>
<td>—</td>
<td>30 - 512</td>
<td>dB</td>
<td>7.5</td>
<td>9</td>
<td>—</td>
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<tr>
<td>Isolation LO to RF</td>
<td>1256.85-1738.85</td>
<td>dB</td>
<td>30</td>
<td>45</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Isolation LO to IF</td>
<td>1256.85-1738.85</td>
<td>dB</td>
<td>23</td>
<td>26</td>
<td>—</td>
<td>—</td>
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<tr>
<td>Input 1 dB Compression</td>
<td>—</td>
<td>30 - 512</td>
<td>dBm</td>
<td>—</td>
<td>—</td>
<td>9</td>
</tr>
</tbody>
</table>

**Electrical Specifications:**  
$T_A = 25^\circ C$, $Z_0 = 50\Omega$, $LO = +13\ dBm$

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. M/A-COM does not recommend sustained operation near these survivability limits.

E-Series Surface Mount Mixer
30-512 MHz

Typical Performance Curves at +25°C

Conversion Loss

Isolation LO-RF

Isolation LO-IF

SM - 89 Package

* Dimensions are inches (millimeters) ±0.015 (0.38) unless otherwise.
E-Series Surface Mount Mixer
30-512 MHz

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