**Surface Mount**

**Frequency Mixer**

**ADE-1MH**

**Level 13 (LO Power +13 dBm) 2 to 500 MHz**

**Maximum Ratings**
- Operating Temperature: -40°C to 85°C
- Storage Temperature: -55°C to 100°C
- RF Power: 200mW
- IF Current: 40mA

**Features**
- good L-R isolation, 50 dB typ.
- L-I isolation, 45 dB typ.
- low profile package
- aqueous washable
- protected by U.S. Patent 6,133,525

**Applications**
- cellular
- VHF/UHF receivers

**Electrical Specifications**

<table>
<thead>
<tr>
<th>FREQUENCY (MHz)</th>
<th>CONVERSION LOSS (dB)</th>
<th>LO-RF ISOLATION (dB)</th>
<th>LO-IF ISOLATION (dB)</th>
<th>IP3 at center band (dBm)</th>
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</thead>
<tbody>
<tr>
<td>LO/RF</td>
<td>IF</td>
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<tr>
<td>L-I</td>
<td>L-R</td>
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<td>LO-RF</td>
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</tbody>
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**RF Power** 200mW

**IF Current** 40mA

**Operating Temperature** -40°C to 85°C

**Storage Temperature** -55°C to 100°C

**Applications** cellular, VHF/UHF receivers

**Suggested PCB Layout (PL-052)**

**Outline Dimensions (inch)**
- A: .272
- B: .310
- C: .323
- D: .100
- E: .112
- F: .085
- G: .100
- H: .030
- J: .066
- K: .065
- L: .300
- wt: .076

**Notes**
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
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