Plug-In Frequency Mixer

SRA-8+

Level 7 (LO Power +7 dBm) 0.0005 to 10 MHz

Maximum Ratings
- Operating Temperature: -55°C to 100°C
- Storage Temperature: -55°C to 100°C
- RF Power: 50mW
- IF Current: 40mA

Permanent damage may occur if any of these limits are exceeded.

Features
- Excellent conversion loss, 5.69 dB typ.
- High L-R isolation, 50 dB typ.
- L-I isolation, 50 dB typ.
- Hermetic

Applications
- IF signal processing
- AM broadcasting radio

Pin Connections
- LO: 8
- RF: 1
- IF: 3, 4
- GROUND: 2, 5, 6, 7

^ pins must be connected together externally

Outline Drawing

Outline Dimensions (inch mm)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>.770</td>
<td>.800</td>
<td>.385</td>
<td>.400</td>
<td>.370</td>
<td>.400</td>
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<tr>
<td>19.56</td>
<td>20.32</td>
<td>9.78</td>
<td>10.16</td>
<td>9.40</td>
<td>10.16</td>
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<tr>
<td>G</td>
<td>H</td>
<td>J</td>
<td>K</td>
<td>wt</td>
<td></td>
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<tr>
<td>.200</td>
<td>.20</td>
<td>.14</td>
<td>.031</td>
<td>grams</td>
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<tr>
<td>5.08</td>
<td>5.08</td>
<td>3.56</td>
<td>0.79</td>
<td>5.2</td>
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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>
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</thead>
<tbody>
<tr>
<td>LO/RF</td>
<td>IF</td>
<td>Mid-Band X</td>
<td>σ Max. Total Range Max.</td>
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<td>LO-RF</td>
<td>LO-RF</td>
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<tr>
<td>LO</td>
<td>LO</td>
<td>LO</td>
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<tr>
<td>.0005-10</td>
<td>DC-10</td>
<td>.0005-10</td>
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</tr>
<tr>
<td>5.69</td>
<td>11</td>
<td>7.5</td>
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<td>8.5</td>
<td>60</td>
<td>50</td>
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<td>45</td>
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<td>35</td>
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</table>

1 dB COMP: +1 dBm typ.

CASE STYLE: A01
PRICE: $35.20 ea. QTY (1-9)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Permanent damage may occur if any of these limits are exceeded.

Electrical Schematic
Performance Charts

**SRA-8+**

**CONVERSION LOSS**

- LO=+4 dBm
- LO=+7 dBm
- LO=+10 dBm

**L-R ISOLATION**

- LO=+4 dBm
- LO=+7 dBm
- LO=+10 dBm

**RF VSWR**

- LO=+4 dBm
- LO=+7 dBm
- LO=+10 dBm

**LO VSWR**

- LO=+4 dBm
- LO=+7 dBm
- LO=+10 dBm

**IF VSWR**

- LO=+4 dBm
- LO=+7 dBm
- LO=+10 dBm

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Notes:
1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet.
2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
3. The parts covered by this specification sheet are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"). Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

For detailed performance specs & shopping online see web site minicircuits.com

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