Plug-In
Frequency Mixer

SBL-11+

Level 7 (LO Power +7 dBm)  5 to 2000 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
- broadband 5 to 2000 MHz
- good conversion loss, 7.08 dB typ.
- rugged welded construction

Applications
- VHF/UHF
- GPS
- defense & satellite communications

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>
</tr>
</thead>
<tbody>
<tr>
<td>LO/RF</td>
<td>IF</td>
<td>L</td>
<td>M</td>
</tr>
<tr>
<td>5-2000</td>
<td>10-600</td>
<td>7.08</td>
<td>8.5</td>
</tr>
</tbody>
</table>

 typ. = typical 
 Min. = minimum 
 Max. = maximum

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

CASE STYLE: A06

+RoHS Compliant

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

Generic photo used for illustration purposes only

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.
C. The parts covered by this specification document 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-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp

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SBL-11
DJ/TDC/PAM
200409
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**Performance Charts**

**SBL-11+**

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**Conversion Loss**

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

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**L-R Isolation**

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

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**L-I Isolation**

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

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**RF VSWR**

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

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**IF VSWR**

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