**Plug-In Frequency Mixer**

Level 7 (LO Power +7 dBm) 1 to 1000 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.

**Pin Connections**
- LO: 4
- RF: 1
- IF: 2
- GROUND: 3
- CASE GROUND: 3

**Features**
- Low conversion loss, 5.74 dB typ.
- Wideband, 1 to 1000 MHz
- Good L-R isolation, 40 db typ.
- Rugged welded construction
- Hermetically sealed

**Applications**
- VHF/UHF
- Aviation
- Cellular
- ISM/GSM

**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>Mid-Band</td>
<td>Total Range</td>
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1 dB COMP: +1 dBm typ.
L = low range [+10 to 10²]
M = mid range [+10² to 10³]
U = upper range [+10³ to 10⁴]

**Electrical Schematic**

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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-Circuits 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.
4. +RoHS Compliant
   - The +Suffix identifies RoHS Compliance. See our website for RoHS Compliance methodologies and qualifications.
Performance Charts

TFM-2+

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