Surface Mount Frequency Mixer

Level 7 (LO Power +7 dBm)  5 to 1000 MHz

Maximum Ratings
Operating Temperature  -40°C to 85°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  6
RF  3
IF  2
GROUND  1,4,5

Features
• excellent L-R isolation, 47 dB typ.
• low profile package
• aqueous washable
• protected by U.S. Patent 6,133,525

Applications
• cellular
• PCS

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>
</tr>
</thead>
<tbody>
<tr>
<td>LO/RF</td>
<td>IF</td>
<td>Mid-Band L</td>
<td>Mid-Band M</td>
<td>Mid-Band U</td>
</tr>
<tr>
<td>LO</td>
<td>RF</td>
<td>L</td>
<td>M</td>
<td>U</td>
</tr>
<tr>
<td>LO</td>
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<tr>
<td>LO</td>
<td>RF</td>
<td>L</td>
<td>M</td>
<td>U</td>
</tr>
<tr>
<td>5-1000</td>
<td>DC-1000</td>
<td>6.67 0.26 8.0 9.5</td>
<td>60 40 47 25 32 22</td>
<td>62 35 45 25 32 20 20</td>
</tr>
</tbody>
</table>

1 dB COMP.: +1 dBm typ.  L = low range  [L to 10L]  M = mid range  [10L to L/2]  U = upper range  [L/2 to L]

Typical Performance Data:

- Conversion Loss
- Isolation
- VSWR

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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