Coaxial Frequency Mixer

Level 17 (LO Power +17 dBm) 5 to 1200 MHz

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

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

Coaxial Connections
- LO: 1
- RF: 2
- IF: 3

Features
- Low conversion loss, 4.97 dB typ.
- Good L-R isolation, 35 dB typ, L-I, 35 dB typ.
- Wideband, 5 to 1200 MHz
- Rugged shielded case

Applications
- VHF/UHF
- Cellular
- Instrumentation
- GPS
- Federal & Defense 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 IF</td>
<td>X</td>
<td>L</td>
<td>m</td>
</tr>
<tr>
<td>LO/RF IF+</td>
<td>X</td>
<td>L</td>
<td>m</td>
</tr>
<tr>
<td>LO/RF IF-S+</td>
<td>X</td>
<td>L</td>
<td>m</td>
</tr>
<tr>
<td>5-1200</td>
<td>6.59</td>
<td>0.03</td>
<td>8.0</td>
</tr>
<tr>
<td>DC-1200</td>
<td>6.59</td>
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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-Circuits' applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document 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.

Electrical Schematic

ZFM-4H+
ZFM-4H
SMA version shown
CASE STYLE: K18

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

ZFM-4H
ZFM-4H+

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Performance Charts

ZFM-4H

CONVERSION LOSS

at IF Freq of 30 MHz

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

CONVERSION LOSS (dB)

ZFM-4H

L-R ISOLATION

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

ISOLATION (dB)

ZFM-4H

L-I ISOLATION

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

ISOLATION (dB)

ZFM-4H

LO VSWR

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

VSWR

ZFM-4H

RF VSWR

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

VSWR

ZFM-4H

IF VSWR

at LO Freq of 1210 MHz

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

VSWR

at LO Freq of 1210 MHz

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

VSWR

at LO Freq of 1210 MHz

LO=+14 dBm  LO=+17 dBm  LO=+20 dBm

FREQUENCY (MHz)

VSWR

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