**DOUBLE BALANCED MIXER**

**R&K-MX320-0S**

**SPECIFICATIONS**
- **Frequency Range [LO&RF]**: 5 - 2400MHz
- **IF Frequency**: 1 - 700MHz
- **Lo Drive Level**: +20dBm
- **Low Cost**
- **RoHS Compliance**

### Conversion Loss (Typ.)

<table>
<thead>
<tr>
<th>RF Frequency (MHz)</th>
<th>Conversion Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 50 MHz</td>
<td>7.0 dB</td>
</tr>
<tr>
<td>50 - 1200 MHz</td>
<td>7.0 dB</td>
</tr>
<tr>
<td>1200 - 2400 MHz</td>
<td>8.0 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Isolation (min.)</th>
<th>LO - RF</th>
<th>LO - IF</th>
<th>RF - IF</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 50 MHz</td>
<td>40dB</td>
<td>25dB</td>
<td>18dB</td>
</tr>
<tr>
<td>50 - 1200 MHz</td>
<td>40dB</td>
<td>18dB</td>
<td>12dB</td>
</tr>
<tr>
<td>1200 - 2400 MHz</td>
<td>10dB</td>
<td>10dB</td>
<td>5dB</td>
</tr>
</tbody>
</table>

**Input IP3 @Center Band**: +23dBm (typ.)

**Input 1dB Comp. Point**: +14dBm (typ.)

**Impedance (All Ports)**: 50Ω

**Maximum RF Input Power**: 500mW

**Maximum Peak IF Current**: 50mA

**Operating Temperature**: -40°C to +85°C

**Storage Temperature**: -40°C to +100°C

**Connectors (Standard)**: SMA-Female

**Connectors (Option)**: N-Female

**Weight (SMA Connector)**: 30g (typ.)

**HOW TO ORDER**

- **Model Name**: R&K-MX320-0S
- **S = SMA - FEMALE**
- **N = N - FEMALE**

**TYPICAL PERFORMANCE (Temp @+25°C)**

**Conversion Loss vs LO Drive Level**

**Isolation**

**Input IP3**

**SCHEMATIC**

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