DOUBLE BALANCED MIXER

R&K-MX150-1S

OUTLINE DRAWING

SPECIFICATIONS

- **Frequency Range**
  - LO&RF: 0.1 ~ 1000MHz
  - IF: DC ~ 1000MHz

- **Conversion Loss Max. (LO Drive Level +15dBm)**

<table>
<thead>
<tr>
<th></th>
<th>0.1 - 1MHz</th>
<th>1 - 500MHz</th>
<th>500 - 1000MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typ.</td>
<td>6.0dB</td>
<td>5.5dB</td>
<td>7.0dB</td>
</tr>
<tr>
<td>Max.</td>
<td>12.5dB</td>
<td>7.5dB</td>
<td>10.0dB</td>
</tr>
</tbody>
</table>

- **Isolation (min.)**

<table>
<thead>
<tr>
<th></th>
<th>0.1 - 1MHz</th>
<th>1 - 500MHz</th>
<th>500 - 1000MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>LO - RF</td>
<td>50dB</td>
<td>25dB</td>
<td>20dB</td>
</tr>
<tr>
<td>LO - IF</td>
<td>45dB</td>
<td>20dB</td>
<td>12dB</td>
</tr>
<tr>
<td>RF - IF</td>
<td>30dB</td>
<td>10dB</td>
<td>5dB</td>
</tr>
</tbody>
</table>

- **Input IP3 @Center Band**: +23dBm (typ.)
- **Input 1dB Comp. Point**: + 9dBm (typ.)
- **Impedance (All Ports)**: 50Ω
- **Maximum RF Input Power**: 200mW
- **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)**: BNC-Female
- **Weight (SMA Connector)**: 65g (typ.)

HOW TO ORDER

Model Name: R&K-MX150-1S

S = SMA - FEMALE
B = BNC - FEMALE

TYPICAL PERFORMANCE (Temp @+25°C)

- **Conversion Loss**

- **Conversion Loss vs LO Drive Level**

- **Isolation**

- **Input IP3**

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