DOUBLE BALANCED MIXER

R&K-MX050-1S

SPECIFICATIONS

- LO&RF Frequency: 0.01 ~ 100MHz
- IF Frequency: DC ~ 100MHz
- Lo Drive Level: +7dBm
- Low Cost
- RoHS Compliance

Frequency Range

<table>
<thead>
<tr>
<th>LO&amp;RF</th>
<th>0.01 - 100MHz</th>
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<tbody>
<tr>
<td>IF</td>
<td>DC ~ 100MHz</td>
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</table>

Conversion Loss Max.

<table>
<thead>
<tr>
<th>LO Drive Level +7dBm</th>
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</thead>
<tbody>
<tr>
<td>0.01 - 0.1MHz</td>
</tr>
<tr>
<td>Typ.  5.0dB</td>
</tr>
<tr>
<td>Max.  11.0dB</td>
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</tbody>
</table>

Isolation (min.)

<table>
<thead>
<tr>
<th>LO - RF</th>
<th>LO - IF</th>
<th>IF - RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01 - 0.1MHz</td>
<td>30dB</td>
<td>20dB</td>
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<tr>
<td>0.1 - 50MHz</td>
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<tr>
<td>50 - 100MHz</td>
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Input IP3 @Center Band: +14dBm (typ.)
Input 1dB Comp. Point: + 1dBm (typ.)
Impedance (All Ports): 50Ω
Maximum RF Input Power: 50mW
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-MX050-1S
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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