DOUBLE BALANCED MIXER

R&K-MX020-1S

OUTLINE DRAWING

SPECIFICATIONS

- LO&RF Frequency: 0.002 ~ 50MHz
- IF Frequency: DC ~ 50MHz
- Lo Drive Level: +10dBm
- Low Cost
- RoHS Compliance

Frequency Range [LO&RF]: 0.002 - 50MHz
(IF): DC - 50MHz
Conversion Loss Max. (LO Drive Level +10dBm)

<table>
<thead>
<tr>
<th>Type</th>
<th>0.002 - 0.02MHz</th>
<th>0.02 - 25MHz</th>
<th>25 - 50MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typ.</td>
<td>6.5dB</td>
<td>4.5dB</td>
<td>5.5dB</td>
</tr>
<tr>
<td>Max.</td>
<td>12.5dB</td>
<td>6.0dB</td>
<td>8.0dB</td>
</tr>
</tbody>
</table>

Isolation (min.)

<table>
<thead>
<tr>
<th></th>
<th>0.002 - 0.02MHz</th>
<th>0.02 - 25MHz</th>
<th>25 - 50MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>LO - RF</td>
<td>50dB</td>
<td>30dB</td>
<td>25dB</td>
</tr>
<tr>
<td>LO - IF</td>
<td>45dB</td>
<td>30dB</td>
<td>20dB</td>
</tr>
<tr>
<td>RF - IF</td>
<td>30dB</td>
<td>10dB</td>
<td>10dB</td>
</tr>
</tbody>
</table>

Input IP3 @Center Band: +16dBm (typ.)
Input 1dB Comp. Point: + 4dBm (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-MX020-1S

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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