DOUBLE BALANCED MIXER

R&K-MX130-1S

OUTLINE DRAWING

※ IN MILLIMETERS

- LO&RF Frequency: 0.1 ~ 1000MHz
- IF Frequency: DC ~ 1000MHz
- Lo Drive Level: +7dBm
- Low Cost
- RoHS Compliance

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Conversion Loss Max. (LO Drive Level +7dBm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[LO&amp;RF] 0.1 - 1000MHz</td>
<td>Max. 6.0dB 5.5dB 7.0dB</td>
</tr>
<tr>
<td>[IF] DC - 1000MHz</td>
<td>Max. 12.5dB 7.5dB 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>
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</tbody>
</table>

Input IP3 @Center Band: +15dBm (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-MX130-1S

S = SMA - FEMALE
B = BNC - FEMALE

TYPICAL PERFORMANCE (Temp @+25°C)

Conversion Loss vs LO Drive Level

Input IP3

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