DOUBLE BALANCED MIXER

R&K-MX220-0S

OUTLINE DRAWING

TOP VIEW

BOTTOM VIEW

SPECIFICATIONS

- LO&RF Frequency: 500 ~ 2000MHz
- IF Frequency: DC ~ 1000MHz
- Lo Drive Level: +10dBm
- Low Cost
- RoHS Compliance

Frequency Range
- [LO&RF]: 500 - 2000MHz
- [IF]: DC - 1000MHz

Conversion Loss Max. (LO Drive Level +10dBm)

<table>
<thead>
<tr>
<th></th>
<th>500 - 1000MHz</th>
<th>1000 - 1500MHz</th>
<th>1500 - 2000MHz</th>
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</thead>
<tbody>
<tr>
<td>Typ.</td>
<td>6.5dB</td>
<td>6.0dB</td>
<td>8.0dB</td>
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<tr>
<td>Max.</td>
<td>10.5dB</td>
<td>6.0dB</td>
<td>11.5dB</td>
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Input Isolation (min.)

<table>
<thead>
<tr>
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<th>500 - 1000MHz</th>
<th>1000 - 1500MHz</th>
<th>1500 - 2000MHz</th>
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<tbody>
<tr>
<td>LO - RF</td>
<td>20dB</td>
<td>20dB</td>
<td>20dB</td>
</tr>
<tr>
<td>LO - IF</td>
<td>20dB</td>
<td>20dB</td>
<td>15dB</td>
</tr>
<tr>
<td>RF - IF</td>
<td>15dB</td>
<td>10dB</td>
<td>8dB</td>
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</tbody>
</table>

Input IP3 @Center Band: +13dBm (typ.)
Input 1dB Comp. Point: +5dBm (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): N-Female
Weight (SMA Connector): 30g (typ.)

HOW TO ORDER

Model Name: R&K-MX220-0S
S = SMA - FEMALE
N = N - FEMALE

TYPICAL PERFORMANCE (Temp @ +25°C)

Conversion Loss

Conversion Loss vs LO Drive Level

Isolation

Input IP3

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