R&K-MX460-1S

### SPECIFICATIONS @+25°C

- **Frequency Range [LO&RF]**: 100Hz ~ 20MHz
- **IF Frequency**: DC ~ 20MHz
- **Lo Drive Level**: +10dBm
- **Low Cost**
- **RoHS Compliance**

#### Conversion Loss (max.) (LO Drive Level +10dBm)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100Hz - 10kHz</td>
<td>6.0dB</td>
<td>8.0dB</td>
</tr>
<tr>
<td>10kHz - 1MHz</td>
<td>6.0dB</td>
<td>8.0dB</td>
</tr>
<tr>
<td>1MHz - 20MHz</td>
<td>6.0dB</td>
<td>8.0dB</td>
</tr>
</tbody>
</table>

#### Isolation (min.)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>LO - RF</th>
<th>LO - IF</th>
<th>RF - IF</th>
</tr>
</thead>
<tbody>
<tr>
<td>100Hz - 1kHz</td>
<td>50dB</td>
<td>40dB</td>
<td>30dB</td>
</tr>
<tr>
<td>1kHz - 1MHz</td>
<td>30dB</td>
<td>25dB</td>
<td>20dB</td>
</tr>
<tr>
<td>1MHz - 20MHz</td>
<td>30dB</td>
<td>25dB</td>
<td>20dB</td>
</tr>
</tbody>
</table>

#### Input IP3 @Center Band

- +16dBm (typ.)
- +5dBm (typ.)

#### Impedance (All Ports)

- 50Ω

#### Operating Temperature

- 40℃ to 85℃

#### Storage Temperature

- -40℃ to +100℃

#### Connectors (Standard)

- SMA-Female

#### Connectors (Option)

- BNC-Female

#### Weight (SMA Connector)

- 65g (typ.)

### HOW TO ORDER

**Model Name**

- R&K-MX460-1S

**S =** SMA - FEMALE

**B =** BNC - FEMALE

### TYPICAL PERFORMANCE (Temp @+25°C)

#### Conversion Loss

- **IF freq. = 0 MHz**
- **LO Drive Level = +10dBm**
- **RF Drive Level = +7dBm**

#### Conversion Loss vs LO Drive Level

- **LO freq. = 0 MHz**
- **IF freq. = 0.7MHz**

#### Isolation

- **LO-IF**
- **LO-RF**
- **RF-IF**

#### Input IP3

- **Fundamental Output**
- **3rd Order Output**

**LO Drive Level = +10dBm**
- **RF1 freq. = 0.1MHz**
- **RF2 freq. = 0.11MHz**
- **IF freq. = 0.7MHz**

R&K reserves the right to make changes in the specifications of or discontinue products at any time without notice. R&K products shall not be used for or in connection with equipment that requires an extremely high level of reliability and safety such as aerospace uses or medical life support equipment. Further, R&K cannot accept products to any country for use in military or defense applications.

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