**R&K-SW1010-0S**

**Single Pole 4 Throw (SP4T) Switch**
- 9kHz ~ 6000MHz Operation
- Absorptive
- Pin max. +35dBm
- Low Cost
- RoHS Compliance

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>9kHz ~ 6000MHz</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>2.0dB (max.)</td>
</tr>
<tr>
<td>Isolation (9kHz ~ 3GHz)</td>
<td>40dB (min.)</td>
</tr>
<tr>
<td>(3GHz ~ 6GHz)</td>
<td>35dB (min.)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Return Loss (All Ports)</td>
<td>-15dB (typ.)</td>
</tr>
<tr>
<td>Input Power 1dB Comp.</td>
<td>+35dBm @2GHz</td>
</tr>
<tr>
<td>Input IP3</td>
<td>+55dBm @2GHz</td>
</tr>
<tr>
<td>Maximum RF Input Power</td>
<td>+35dBm Through @2GHz</td>
</tr>
<tr>
<td></td>
<td>+28dBm Terminated @2GHz</td>
</tr>
<tr>
<td>Switching Speed (Turn On)</td>
<td>250ns (typ.) / 50% Cont. to 90% RF</td>
</tr>
<tr>
<td>(Turn Off)</td>
<td>150ns (typ.) / 50% Cont. to 10% RF</td>
</tr>
</tbody>
</table>

### Control Logic

- H = +5V C-MOS H or Open / L = +5V C-MOS L or Short to GND.
- When Status RF OFF, RFC is not Terminated.

### DC Supply Input

- +5V ±0.5V / 10mA (max.)

### Operating Temperature

- -25°C to +85°C

### Storage Temperature

- -25°C to +85°C

### Connectors

- SMA-FEMALE

### HOW TO ORDER

- Model Name: R&K-SW1010-0S
- No Option

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**TYPICAL PERFORMANCE**

- **Insertion Loss & Isolation**
- **Switching Speed**
- **Return Loss**
- **Phase Difference**
- **Group Delay**

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**SCHEMATIC**

- **Input vs Output Linearity & Phase**
- **AM/PM Performance**