R&K-SW010-0S

**SOLID STATE SWITCH SPST**

- **Frequency Range**: 0.1 ~ 100MHz
- **High Switching Speed**
- **Internal C-MOS Driver**
- **Reflective**
- **RoHS Compliance**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>0.1 - 100MHz</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>4.0dB (max.)</td>
</tr>
<tr>
<td>Isolation</td>
<td>40dB (min.)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50Ω</td>
</tr>
<tr>
<td>VSWR (All Port)</td>
<td>1.25:1 (typ.)</td>
</tr>
<tr>
<td>Input Power 1dB Comp. Point</td>
<td>+7dBm (typ.) @100MHz</td>
</tr>
<tr>
<td>Input I.C.P.</td>
<td>+14dBm (typ.) @100MHz</td>
</tr>
<tr>
<td>Switching Speed</td>
<td>50ns (max.) t/Rise / tFall</td>
</tr>
<tr>
<td>Switching Control</td>
<td></td>
</tr>
</tbody>
</table>

**Control Input**

- **H**
- **L**
- **OFF**

H=C-MOS H or Open / L=C-MOS L or GND

**Maximum RF Input Power**

- +12dBm

**DC Supply Input**

- +5V 20mA (max.)

**Operating Temperature**

- -25°C to +85°C

**Storage Temperature**

- -25°C to +85°C

**Connectors (Standard)**

- SMA-Female

**Connectors (Option)**

- BNC-Female

**Weight (SMA Connector)**

- 55g (typ.)

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**HOW TO ORDER**

- **Model Name**: R&K-SW010-0S
- **S = SMA - FEMALE**
- **B = BNC - FEMALE**

**TYPICAL PERFORMANCE (Temp @+25°C)**

**Insertion Loss**

- [Graph showing insertion loss over frequency]

**Isolation**

- [Graph showing isolation over frequency]

**VSWR (On State)**

- [Graph showing VSWR over frequency]

**Switching Speed**

<table>
<thead>
<tr>
<th>Switching Speed</th>
<th>RF OUT</th>
<th>100MHz / 0dBm</th>
<th>500kHz / 1dBx20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1</td>
<td>V1: 7V / 200mV</td>
<td>Div / 5ns / Div</td>
<td>Div / 5ns / Div</td>
</tr>
<tr>
<td>CH2</td>
<td>V2: 200mV</td>
<td>Div / 20ns / Div</td>
<td>Div / 20ns / Div</td>
</tr>
</tbody>
</table>

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