**R&K-AT010-0S**

**Specifications**

**Frequency Range**: 9kHz ~ 6GHz

**Insertion Loss (9kHz-3GHz)**: 3dB (max.)

**(3GHz-6GHz)**: 4dB (max.)

**Attenuation Range**: 0 to 30dB (typ.) / Variable

**Impedance**: 50Ω

**Input / Output Return Loss**: +10dB (typ.)

**Input Power@1dB Comp**: +8dBm (min.) / ATT. min

**Input I.C.P.**: +30dBm (typ.) / ATT. min.

**Control Voltage**: 0V = ATT. max.

**Switching Speed**: 500nS (max.) / tRise / tFall

**DC Supply Input**: +5V ± 0.2V / 120mA (max.)

**Maximum RF Input Power**: +15dBm

**Operating Temperature**: -20℃ to +60℃

**Storage Temperature**: -20℃ to +80℃

**Connectors (Standard)**: SMA-Female

**Weight (AT010-0S)**: 75g (typ.)

**How to Order**

Model Name
R&K-AT010-0S

S = SMA - FEMALE
N = N - FEMALE

**Typical Performance (Temp @+25℃)**

**Insertion Loss**

![Graph showing Insertion Loss vs Frequency and Control Voltage vs Attenuation](image)

**Control Voltage vs Attenuation**

![Graph showing Control Voltage vs Attenuation](image)

**Control Voltage vs Return Loss**

![Graph showing Control Voltage vs Return Loss](image)

**Control Voltage vs Phase Shift**

![Graph showing Control Voltage vs Phase Shift](image)

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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, The export of R&K products from Japan may be subject to an export license by the government of Japan, based on Japan's "Foreign Exchange and Foreign Trade Law".

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## Revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version Number</th>
<th>Detailed contents of the change.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020/05/07</td>
<td>2.0</td>
<td>Outline drawing change.</td>
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<tr>
<td></td>
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<td>Specifications change.</td>
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<tr>
<td></td>
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<td>- Frequency Range : 0.01MHz ~ 6000MHz ⇒ 9kHz ~ 6GHz</td>
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<td>- Insertion Loss (9kHz–3GHz) : 4dB (max.) ⇒ 3dB (max.) (3GHz–6GHz) : 5dB (max.) ⇒ 4dB (max.)</td>
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<td>- Input / Output VSWR</td>
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<tr>
<td></td>
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<td>(0.01MHz–3GHz) : 2.0 : 1.0 (typ.) (3GHz–6GHz) : 3.0 : 1.0 (typ.)</td>
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<td>⇒ Input / Output Return Loss : 10dB (typ.)</td>
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<td>- Input I.C.P. : +23dBm (typ.) / ATT. min. ⇒ +30dBm (typ.) / ATT. min.</td>
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<td>- DC Supply Input : +5V ±0.2V / 75mA (max.) ⇒ +5V ±0.2V / 120mA (max.)</td>
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<td>- Weight : 85g (typ.) ⇒ 75g (typ.)</td>
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