**SMALL SIGNAL AMPLIFIER**

**Ver.2.0 : 2020.04.01**

**R&K-AA200-0S**

**OUTLINE DRAWING ※IN MILLIMETERS**

**TYPICAL PERFORMANCE (Temp @+25℃)**

**SPECIFICATIONS**

- **Frequency Range**: 50MHz ~ 3000MHz
- **Small Signal Gain**: +27dB (typ.) @2GHz
- **Output Power**: +35dBm (min.) @2GHz
- **Gain Flatness**: ±2.0dB (max.)
- **Output Power@1dB Comp.**: +35dBm (min.) @2GHz
- **Output I.C.P.**: +45dBm (typ.) @2GHz
- **Noise Figure**: 8.0dB (max.)
- **Impedance**: 50Ω
- **Input Return Loss**: 10dB (typ.)
- **Output Return Loss**: 6dB (typ.)
- **DC Supply Input**: +12V ±0.5V, 1800mA (max.)
- **Maximum RF Input Power**: +13dBm
- **Operating Temperature**: −20℃ to +60℃
- **Storage Temperature**: −20℃ to +80℃
- **Connectors (Standard)**: SMA-FEMALE
- **Connectors (Option)**: BNC-FEMALE, N-FEMALE
- **Weight (AA200-0S)**: 165g (typ.)

**HOW TO ORDER**

- **Model Name**: R&K-AA200-0S
- **Options**:
  - **S** = SMA-FEMALE
  - **B** = BNC-FEMALE
  - **N** = N-FEMALE
  - **0** = Module
  - **1** = With Heatsink & Fan

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**TYPICAL PERFORMANCE (Temp @+25℃)**

**Small Signal Gain & Gain Flatness**

- **Input & Output Return Loss**

**Noise Figure**

- **Gain Flatness**

- **Input Return Loss**

**Output Power 1dB & 3dB Comp., Output 3rd Order Intercept Point**

- **Power (dBm)**

**Pulse Characteristics**

- **Pulse Width**: 100μS / Duty 10%
- **Pout=+30dBm / Freq. = 2GHz**

**Input vs Output Linearity**

- **Input Power (dBm)**

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**TYPICAL PERFORMANCE (Temp @+25℃)**

**Noise Figure**

- **Gain Flatness**

**Input Return Loss**

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### Revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Version Number</th>
<th>Detailed contents of the change.</th>
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<tbody>
<tr>
<td>2020/04/01</td>
<td>2.0</td>
<td>Outline drawing change. Specifications change.</td>
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<tr>
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<td>- Output I.C.P. : +44dBm (typ.) @2GHz ⇒ +45dBm (typ.) @2GHz</td>
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<td>- Noise Figure : 10.0dB (max.) ⇒ 8.0dB (max.)</td>
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<td>- DC Supply Input : +12V ±0.5V, 1.6A (max.) ⇒ +12V ±0.5V, 1800mA (max.)</td>
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<td>- Maximum RF Input Power : +15dBm ⇒ +13dBm</td>
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<td>- Weight : 170g (typ.) ⇒ 165g (typ.)</td>
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