**R&K-A010K221-6767R**

**RF POWER AMPLIFIER**

- **All Solid-State Amplifier**
- **Broadband Frequency:** 10kHz ~ 225MHz
- **Output Power @Psat:**
  - 5.0kW (min.) @ 10kHz ~ 50MHz
  - 5.0kW ~ 4.0kW (min.) @ 50MHz ~ 200MHz
  - 3.5kW (min.) @ 200MHz ~ 225MHz

- **Building Block Construction**

**APPLICATION**

- EMC (Electromagnetic Compatibility)
- Etc...

**SPECIFICATIONS @ +25°C**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Small Signal Gain</th>
<th>Gain Flatness</th>
<th>Output Power @Psat</th>
<th>Output Power @1dB Comp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10kHz ~ 225MHz</td>
<td>+67.0dB (min.)</td>
<td>±2.0dB (max.)</td>
<td>5.0kW (min.) @ 10kHz ~ 50MHz</td>
<td>5.0kW ~ 4.0kW (min.) @ 50MHz ~ 200MHz (derating slope of 6.66W/MHz)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.5kW (min.) @ 200MHz ~ 225MHz</td>
<td>3.4kW ~ 2.5kW (min.) @ 100MHz ~ 200MHz (derating slope of 9W/MHz)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.0kW (min.) @ 200MHz ~ 225MHz</td>
<td>2.5kW (min.) @ 100MHz</td>
</tr>
</tbody>
</table>

- **Harmonics:** -20.0dBc (max.) @ Po=3kW
- **Spurious:** -70.0dBc (max.) @ Po=3kW
- **Impedance:** 50Ω
- **Input VSWR:** 2.0 (max.)
- **Maximum RF Input Power:** +3.0dBm
- **AC Supply Input:** AC200V ±15% / 3φ, 50/60Hz, 30kVA
- **Operating Temperature:** 0℃ to +35℃
- **Storage Temperature:** -15℃ to +55℃
- **Connectors:** RF - IN N - FEMALE
- **RF - OUT 1-5/8” - EIA Flange**
- **Size:** (W)560mm x (D)1000mm x (H)1282mm × 2Units (Excluding Projection)
- **Weight:** 700.0kg (max.)
- **Cooling:** Forced Air Cooling
- **Protection Circuits:** Over Temperature Protection
- **Power Supply Voltage Protection**
- **Output Over Power Protection**
- **Output Over Reflection Power Protection**
- **Other:** R&K Multi Monitoring System

**TYPICAL PERFORMANCE (Temp @+25°C)**

- **Small Signal Gain**
  - **Gain (dB):**
    - 80 dB
    - 70 dB
    - 60 dB
    - 50 dB
    - 40 dB
    - 30 dB
    - 20 dB
    - 10 dB
    - 0 dB
  - **Frequency (MHz):**
    - 0.01 MHz
    - 1 MHz
    - 10 MHz
    - 100 MHz

- **Input VSWR**
  - **VSWR:**
    - 1.6
    - 1.8
    - 2.0
    - 2.2
    - 2.4
    - 2.6
    - 2.8
    - 3.0
  - **Frequency (MHz):**
    - 0.01 MHz
    - 1 MHz
    - 10 MHz
    - 100 MHz

- **Output Power Linearity**
  - **Output Power (dBm):**
    - 60 dBm
    - 50 dBm
    - 40 dBm
    - 30 dBm
    - 20 dBm
    - 10 dBm
    - 0 dBm
  - **Frequency (MHz):**
    - 1 MHz
    - 10 MHz
    - 50 MHz
    - 100 MHz
    - 150 MHz
    - 200 MHz
    - 225 MHz

- **Output Harmonics**
  - **Output Power @ 3dB:**
    - 40 dBm
    - 35 dBm
    - 30 dBm
    - 25 dBm
    - 20 dBm
    - 15 dBm
    - 10 dBm
    - 5 dBm
  - **Frequency (MHz):**
    - 1 MHz
    - 10 MHz
    - 50 MHz
    - 100 MHz
    - 150 MHz
    - 200 MHz
    - 225 MHz

**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”**

---

**APPLICATION**

- EMC (Electromagnetic Compatibility)
- Etc...

**SPECIFICATIONS @ +25°C**

- **Frequency Range:** 10kHz ~ 225MHz
- **Small Signal Gain:** +67.0dB (min.)
- **Gain Flatness:** ±2.0dB (max.)
- **Output Power @Psat:**
  - 5.0kW (min.) @ 10kHz ~ 50MHz
  - 5.0kW ~ 4.0kW (min.) @ 50MHz ~ 200MHz (derating slope of 6.66W/MHz)
  - 3.5kW (min.) @ 200MHz ~ 225MHz
- **Output Power @1dB Comp.:**
  - 3.4kW (min.) @ 10kHz ~ 100MHz
  - 2.5kW (min.) @ 100MHz ~ 200MHz (derating slope of 9W/MHz)
  - 2.0kW (min.) @ 200MHz ~ 225MHz
- **Harmonics:** -20.0dBc (max.) @ Po=3kW
- **Spurious:** -70.0dBc (max.) @ Po=3kW
- **Impedance:** 50Ω
- **Input VSWR:** 2.0 (max.)
- **Maximum RF Input Power:** +3.0dBm
- **AC Supply Input:** AC200V ±15% / 3φ, 50/60Hz, 30kVA
- **Operating Temperature:** 0℃ to +35℃
- **Storage Temperature:** -15℃ to +55℃
- **Connectors:** RF - IN N - FEMALE
- **RF - OUT 1-5/8” - EIA Flange**
- **Size:** (W)560mm x (D)1000mm x (H)1282mm × 2Units (Excluding Projection)
- **Weight:** 700.0kg (max.)
- **Cooling:** Forced Air Cooling
- **Protection Circuits:** Over Temperature Protection
- **Power Supply Voltage Protection**
- **Output Over Power Protection**
- **Output Over Reflection Power Protection**
- **Other:** R&K Multi Monitoring System

---

**R&K Company Limited**

721-1 Maeda,Fuji-City,Shizuoka-Preff.416-8577 Japan

Tel: +81-545-31-2600  Email: info@rkco.jp

Fax: +81-545-31-1600  URL: http://rk-microwave.com