

## R&K-A010K221-7070R



- All Solid-State Amplifier
- Broadband Frequency: 10kHz ~ 225MHz
- Output Power
  - 10kHz ~ 100MHz: 10kW (min.) @Psat
  - 100MHz ~ 225MHz: 6kW (min.) @Psat
- Building-block Construction

### APPLICATION

- EMC(Electromagnetic Compatibility)
- Etc...

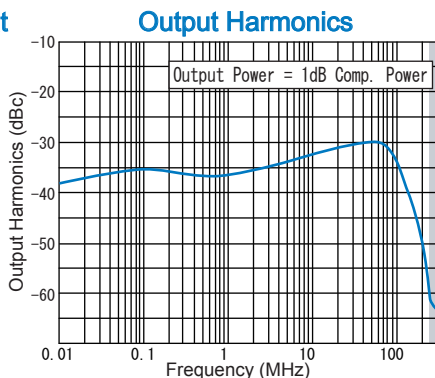
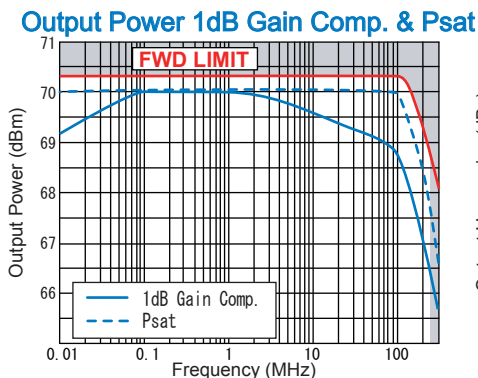
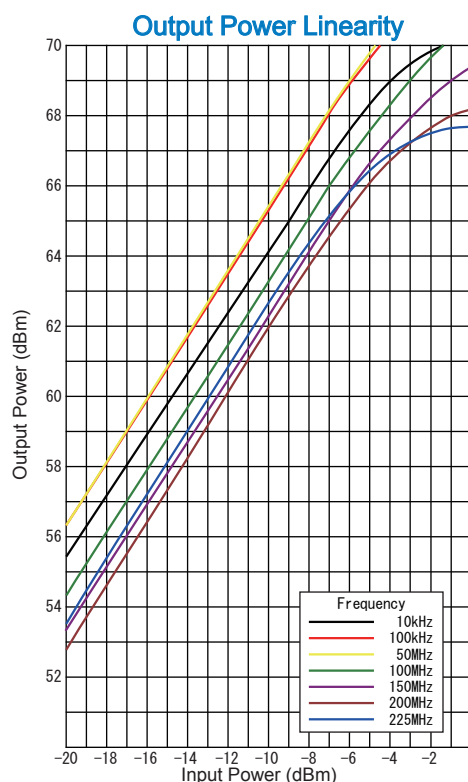
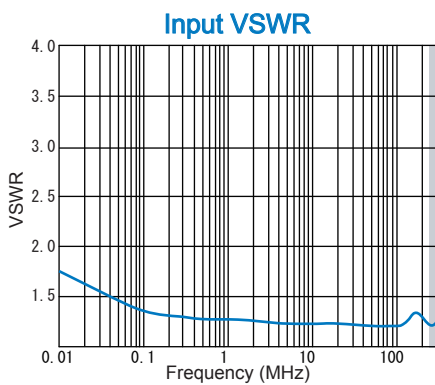
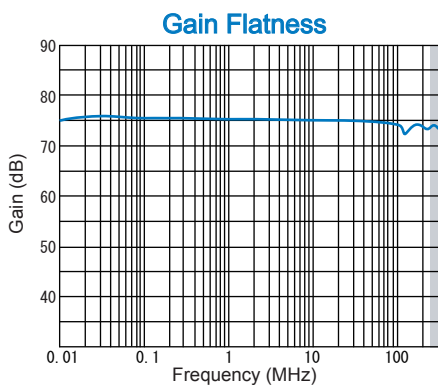
### TYPICAL PERFORMANCE (Temp @+25°C)

### SPECIFICATIONS @ +25°C

|                        |   |
|------------------------|---|
| Frequency Range        | : 10kHz ~ 225MHz $\Delta 1$   |
| Small Signal Gain      | : +70.0dB (min.)  |
| Gain Flatness          | : $\pm 2.0$ dB (max.)   |
| Output Power           |   |
| 10kHz ~ 100MHz         | : 10kW (min.) @Psat<br>: 7kW (min.) @1dB Comp.  |
| 100MHz ~ 225MHz        | : 6kW (min.) @Psat<br>: 4kW (min.) @1dB Comp.   |
| Output I.C.P.          | : +77.0dBm (typ.)   |
| Harmonics              | : -20.0dBc (max.) @Po=1dB Comp. Power   |
| Spurious               | : -70.0dBc (max.) @Po=1dB Comp. Power   |
| Impedance              | : 50 $\Omega$   |
| Input VSWR             | : 2.0 (max.)  |
| Output VSWR            | : 3.0 (max.)  |
| Maximum RF Input Power | : +1.0dBm   |
| AC Supply Input        | : AC200V $\pm 15\%$ / 3 $\phi$ ,<br>50/60Hz, 55.5kVA  |
| Operating Temperature  | : 0°C to +35°C  |
| Storage Temperature    | : -15°C to +55°C  |
| Connectors             | : RF - IN        N        - FEMALE<br>: RF - OUT     1-5/8" - FEMALE  |
| Size                   | : (W)560mm $\times$ (D)1000mm $\times$ (H)1992mm $\times$ 2Units<br>(Excluding Projection) $\Delta 2$   |
| Weight                 | : 1200.0kg (max.) $\Delta 2$  |
| Cooling                | : Forced Air Cooling  |
| Protection Circuits    | : Over Temperature Protection<br>: Power Supply Voltage Protection<br>: Output Over Power Protection<br>: Output Over Reflection Power Protection |
| Other                  | : R&K Multi Monitoring System   |

### HOW TO ORDER

Model Name  
R&K-A010K221-7070R **OP XX** Option:  
See Option Line up



\* CHANGE  $\Delta 1$  21/Oct./2013  $\Delta 2$  20/Mar./2014

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".

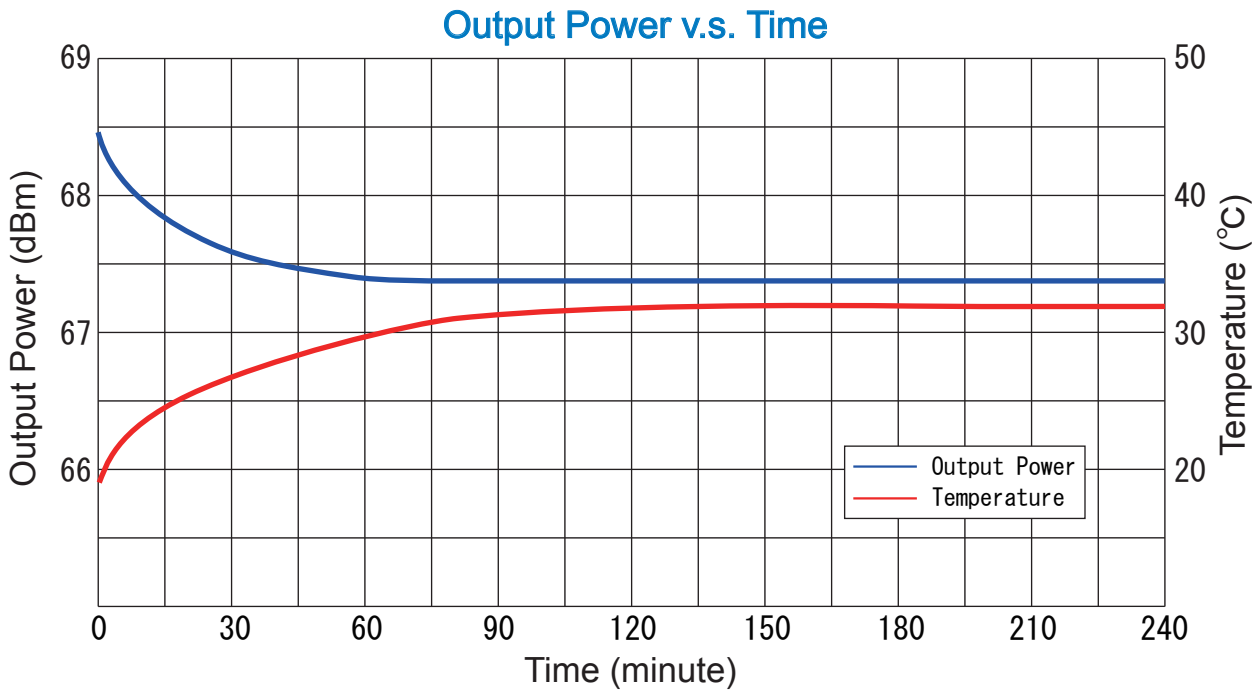
## R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan  
Tel : +81-545-31-2600 E-mail : info@rkco.jp  
Fax : +81-545-31-1600 URL : http://rk-microwave.com

## TYPICAL PERFORMANCE (Temp @+25°C)

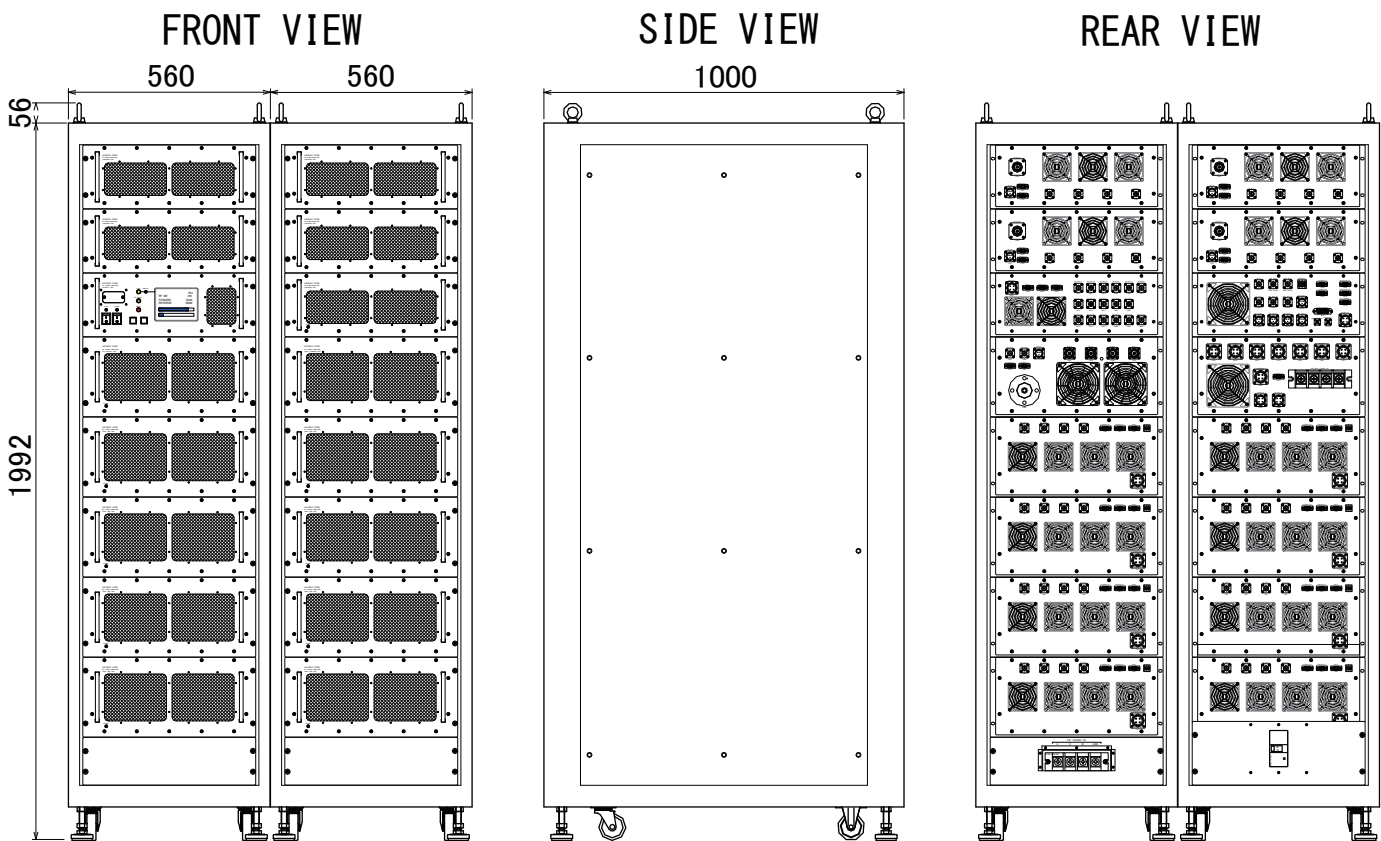
R&K-A010K221-7070R

### ■ Output Power Stability



## OUTLINE DRAWING

※IN MILLIMETERS



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".

## R&K Company Limited

721-1 Maeda, Fuji-City, Shizuoka-Pref. 416-8577 Japan  
 Tel : +81-545-31-2600 E-mail : info@rkco.jp  
 Fax : +81-545-31-1600 URL : http://rk-microwave.com