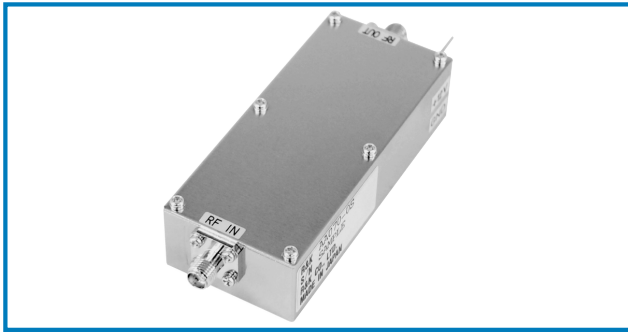


# SMALL SIGNAL AMPLIFIER

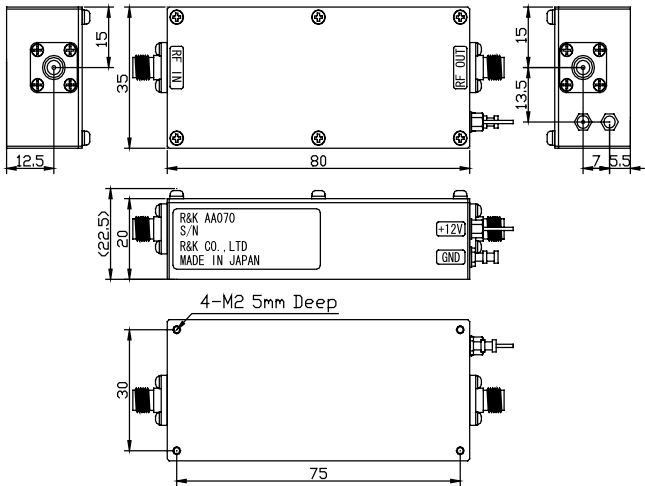


## R&K-AA070-0S



### OUTLINE DRAWING

※ IN MILLIMETERS



- Broadband Frequency : 30 ~ 3000MHz
- Output Power : +16dBm @2GHz
- Gain Flatness : ±1.5dB (max.)
- Low Cost
- RoHS Compliance

### SPECIFICATIONS

|                        |  |
|------------------------|--|
| Frequency Range        | : 30 - 3000MHz                         |
| Small Signal Gain      | : +31dB (typ.) @2GHz<br>: +30dB (min.) |
| Gain Flatness          | : ±1.5dB (max.)                        |
| Output Power@1dB Comp. | : +16dBm (min.) @2GHz                  |
| Output I.C.P.          | : +28dBm (typ.) @2GHz                  |
| Noise Figure           | : 5.0dB (max.)                         |
| Impedance              | : 50 Ω                                 |
| Input VSWR             | : 1.8 : 1 (typ.)                       |
| Output VSWR            | : 1.6 : 1 (typ.)                       |
| DC Supply Input        | : +12V ±1V<br>: 200mA (max.)           |
| Maximum RF Input Power | : -10dBm                               |
| Operating Temperature  | : -20°C to +60°C                       |
| Storage Temperature    | : -20°C to +80°C                       |
| Connectors (Standard)  | : SMA-FEMALE                           |
| Connectors (Option)    | : BNC-FEMALE<br>: N-FEMALE             |
| Weight (SMA Connector) | : 115g (typ.)                          |

### HOW TO ORDER

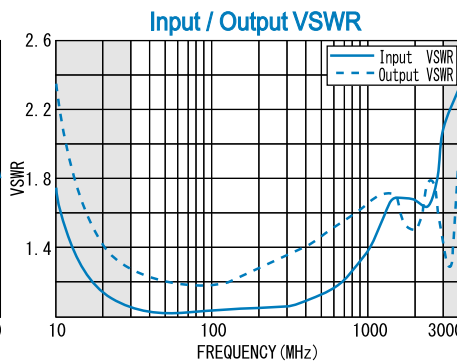
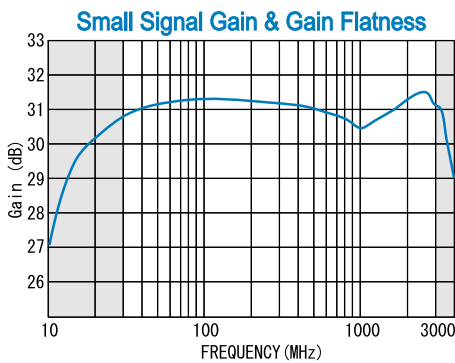
Model Name  
**R&K-AA070-0S**



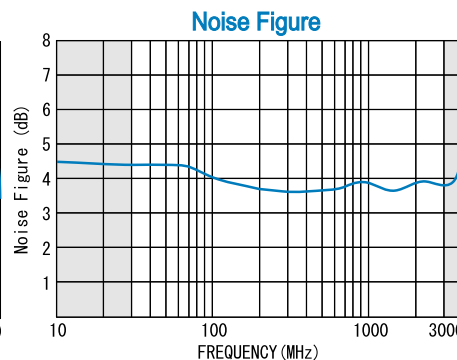
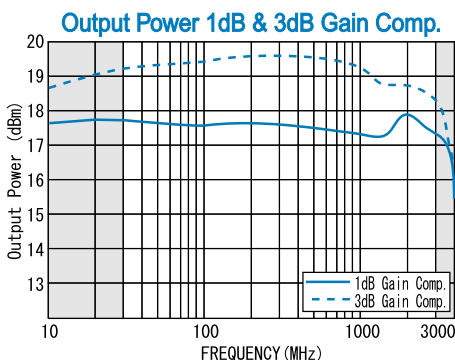
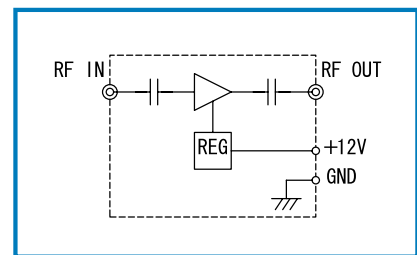
S = SMA - FEMALE  
 B = BNC - FEMALE  
 N = N - FEMALE

※BNC Operational to 1GHz

### TYPICAL PERFORMANCE (Temp @+25°C)



### SCHEMATIC



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, R&K cannot export products to any country for use in military or defense applications.

## 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