**R&K-AA290-0S**

**SMALL SIGNAL AMPLIFIER**

- **Broadband Frequency**: 0.2 ~ 300MHz
- **Output Power**: +35dBm @100MHz
- **Gain Flatness**: ±1.0dB (max.)
- **Low Cost**
- **RoHS Compliance**

### SPECIFICATIONS

- **Frequency Range**: 0.2 ~ 300MHz
- **Small Signal Gain**: +18dB (typ.) @100MHz
- **Gain Flatness**: ±1.0dB (max.)
- **Output Power at 1dB Comp.**: +35dBm (min.) @100MHz
- **Output I.C.P.**: +46dBm (typ.) @100MHz
- **Noise Figure**: 8.0dB (max.)

**NOTE**: N.F. value is only guaranteed in the range of 10MHz ~ 300MHz.

- **Impedance**: 50Ω
- **Input VSWR**: 1.5 : 1 (typ.)
- **Output VSWR**: 3.0 : 1 (typ.)
- **DC Supply Input**: +12V ±1V
- **Maximum RF Input Power**: +23dBm
- **Operating Temperature**: −20°C to +60°C
- **Storage Temperature**: −20°C to +80°C
- **Connectors (Standard)**: SMA-FEMALE
- **Connectors (Option)**: BNC-FEMALE, N-FEMALE
- **Weight (SMA Connector)**: 185g (typ.)

**HOW TO ORDER**

Model Name
R&K-AA290-0S

- **S = SMA - FEMALE**
- **B = BNC - FEMALE**
- **N = N - FEMALE**
- **0 = Module**
- **1 = With Heat Sink**

### TYPICAL PERFORMANCE (Temp @+25°C)

#### Small Signal Gain & Gain Flatness

![Small Signal Gain & Gain Flatness](image)

#### Input / Output VSWR

![Input / Output VSWR](image)

#### Output Power 1dB & 3dB Gain Comp.

![Output Power 1dB & 3dB Gain Comp.](image)

#### Noise Figure

![Noise Figure](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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