**SMALL SIGNAL AMPLIFIER**

**R&K-AA1080-0S**

**OUTLINE DRAWING**

**SPECIFICATIONS**

- **Broadband Frequency**: 1MHz ~ 3000MHz
- **Output Power**: +29dBm @2GHz
- **Small Signal Gain**: +18dB (typ.) @2GHz
- **Gain Flatness**: ±1.5dB (max.)
- **Low Cost**: RoHS Compliance

**Frequency Range**: 1MHz ~ 3000MHz
**Small Signal Gain**: +18dB (typ.) @2GHz
**Gain Flatness**: ±1.5dB (max.)
**Output Power@1dB Comp.**: +29dBm (min.) @2GHz
**Output I.C.P.**: +41dBm (typ.) @2GHz
**Noise Figure**: 9.0dB (max.)

**NOTE**: N.F. value is only guaranteed in the range of 10MHz ~ 3000MHz.

**Impedance**: 50Ω
**Input Return Loss**: 10dB (typ.)
**Output Return Loss**: 10dB (typ.)
**DC Supply Input**: +12V ± 0.5V
**Maximum RF Input Power**: +20dBm
**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)**: 120g (typ.)

**HOW TO ORDER**

Model Name: R&K-AA1080-0S

S = SMA-FEMALE
B = BNC-FEMALE
N = N-FEMALE
0 = Module
1 = With Heatsink

**TYPICAL PERFORMANCE (Temp @+25°C)**

- **Small Signal Gain & Gain Flatness**
- **Input & Output Return Loss**
- **Noise Figure**
- **Output Power 1dB & Power Saturation**
- **Output 3rd Order Intercept Point**
- **Pulse Characteristics**
- **Input vs Output Linearity**

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