**R&K-LA1040-0S**

**LOW NOISE AMPLIFIER**

**SPECIFICATIONS**

- **Broadband Frequency**: 600MHz ~ 4200MHz
- **Noise Figure**: 1.2dB (typ.) / 2dB (max.)
- **Output Power**: +20dBm @ 2GHz
- **Small Signal Gain**: +32dB (typ.) @ 2GHz
- **Low Cost**
- **RoHS Compliance**

**Frequency Range**

- Noise Figure @ +25°C: 1.2dB (typ.)
- Small Signal Gain @ +25°C: +32dB (typ.) @ 2GHz
- Gain Flatness @ +25°C:
  - ±2.0dB (max.)
- Operating Temperature:
  - -20°C to +60°C
- Storage Temperature:
  - -20°C to +80°C
- Impedance: 50Ω
- Input Return Loss: 8dB (typ.)
- Output Return Loss: 10dB (typ.)
- DC Supply Input: +12V ± 0.5V
- Maximum RF Input Power: 0dBm
- Maximum RF Output Power: 2dBm
- Weight: 85g (typ.)

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

- **Noise Figure**: 1.2dB (typ.)
- **Small Signal Gain & Gain Flatness**: +32dB (typ.) @ 2GHz
- **Input & Output Return Loss**: 8dB (typ.)
- **Small Signal Gain**: +32dB (typ.) @ 2GHz
- **Output Power 1dB & Power Saturation**: +20dBm @ 2GHz
- **Output 3rd Order Intercept Point**: +33dBm (typ.) @ 2GHz
- **Output I.C.P.**: +3dBm (typ.) @ 2GHz
- **Impedance**: 50Ω

**HOW TO ORDER**

- **Model Name**: R&K-LA1040-0S
- **No Option**
- **0 = Module**
- **1 = With Heatsink**

**SCHEMATIC**

**OUTLINE DRAWING**

※IN MILLIMETERS

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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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