R&K-LA1010-0S

LOW NOISE AMPLIFIER

**SPECIFICATIONS**

- **Broadband Frequency**: 500MHz ~ 8000MHz
- **Noise Figure**: 2dB (typ.)/3dB (max.)
- **Output Power**: +15dBm @2GHz
- **Small Signal Gain**: +34dB (typ.) @2GHz
- **Low Cost**: RoHS Compliance

**Frequency Range**

- Noise Figure @ +25°C: 2.0dB (typ.)/3.0dB (max.)
- Small Signal Gain: +34dB (typ.) @2GHz
- Gain Flatness: ±2.0dB (max.)
- Output Power@1dB Comp.: +15dBm (min.) @2GHz
- Output I.C.P.: +28dBm (typ.) @2GHz
- Impedance: 50Ω
- Input Return Loss: 10dB (typ.)
- Output Return Loss: 10dB (typ.)
- DC Supply Input: +12V ±0.5V
- Maximum RF Input Power: -5dBm
- Operating Temperature: -20°C to +60°C
- Storage Temperature: -20°C to +80°C
- Connectors: SMA-FEMALE
- Weight: 80g (typ.)

**TYPICAL PERFORMANCE (Temp @+25°C)**

- **Gain**: 40dB @+25°C, 35dB @-20°C, 30dB @+60°C
- **Gain Flatness**: ±1dB (max.)
- **Input Return Loss**: 10dB (typ.)
- **Output Return Loss**: 10dB (typ.)
- **Output Power 1dB & Power Saturation**: +15dBm @2GHz
- **Output 3rd Order Intercept Point**: +28dBm (typ.) @2GHz
- **Noise Figure**: 2dB (typ.)/3dB (max.)
- **Input vs Output Linearity**: -10dBm to +18dBm, -20dBm to +20dBm
- **Pulse Characteristics**: Pulse Width 100μS / Duty 10%

**HOW TO ORDER**

- **Model Name**: R&K-LA1010-0S
- **No Option**

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