R&K-LA1030-0S

**Outlining Drawing**

**Specifications**

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

**Frequency Range**

- 600MHz ~ 4200MHz
- Noise Figure @ +25°C: 1.2dB (typ.)
  - -20°C to +60°C: 2.0dB (max.)
- Small Signal Gain: +20dB (typ.) @ 2GHz
  - +18dB (min.)
- Gain Flatness: ±1.5dB (max.)
- Output Power at 1dB Comp.: +20dBm (min.) @ 2GHz
- Output I.C.P.: +35dBm (typ.) @ 2GHz
- Impedance: 50Ω
- Input Return Loss: 8dB (typ.)
- Output Return Loss: 10dB (typ.)
- DC Supply Input: +12V ±0.5V
- Maximum RF Input Power: +10dBm
- Operating Temperature: -20°C to +60°C
- Storage Temperature: -20°C to +80°C
- Connectors: SMA-FEMALE
- Weight: 85g (typ.)

**Typical Performance**

- Small Signal Gain & Gain Flatness
- Input & Output Return Loss
- Output Power 1dB & Power Saturation
- Output 3rd Order Intercept Point

**Typical Performance at +25°C**

- **Noise Figure**
  - 25°C: 1dB
  - -20°C to +60°C: 2dB (max.)

**Output Characteristics**

- **Gain & Return Loss**
  - Frequency (GHz)
  - Power (dBm)

**Pulse Characteristics**

- **Pulse Width**: 100μS
- **Duty Cycle**: 10%

**Input vs Output Linearity**

- **Input Power (dBm)**
- **Output Power (dBm)**

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