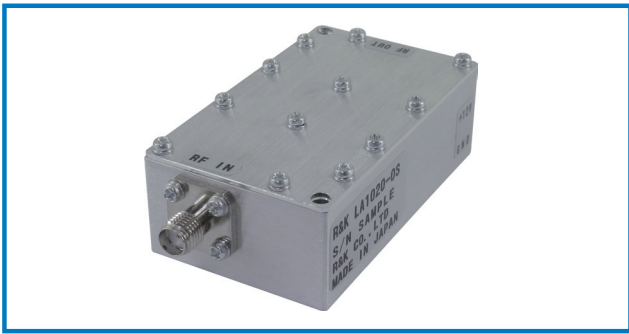


# LOW NOISE AMPLIFIER

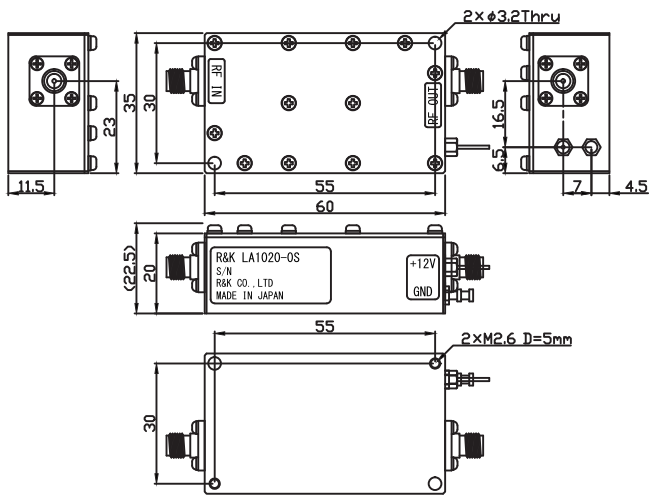


## R&K-LA1020-0S



### OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 500MHz ~ 8000MHz
- Noise Figure : 2dB (typ.) / 3dB (max.)
- Output Power : +15dBm @2GHz
- Small Signal Gain : +47dB (typ.) @2GHz
- Low Cost
- RoHS Compliance

### SPECIFICATIONS

- Frequency Range : 500MHz ~ 8000MHz
- Noise Figure @ +25°C : 2.0dB (typ.)
- 20°C to +60°C : 3.0dB (max.)
- Small Signal Gain : +47dB (typ.) @2GHz
- +45dB (min.)
- Gain Flatness :  $\pm$ 2.0dB (max.)
- Output Power @ 1dB Comp. : +15dBm (min.) @2GHz
- Output I.C.P. : +28dBm (typ.) @2GHz
- Impedance : 50  $\Omega$
- Input Return Loss : 10dB (typ.)
- Output Return Loss : 10dB (typ.)
- DC Supply Input : +12V  $\pm$ 0.5V
- 200mA (max.)
- Maximum RF Input Power : -20dBm
- Operating Temperature : -20°C to +60°C
- Storage Temperature : -20°C to +80°C
- Connectors : SMA-FEMALE
- Weight : 100g (typ.)

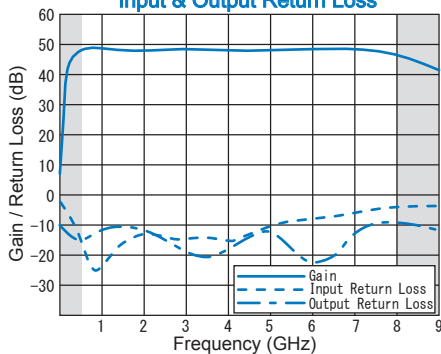
### HOW TO ORDER

Model Name  
R&K-LA1020-0S

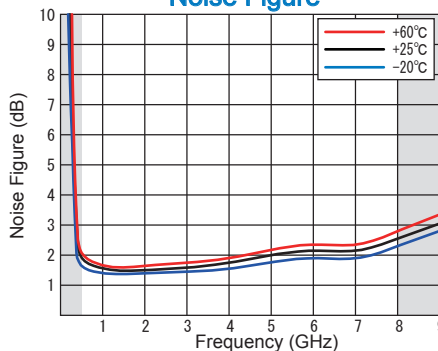
No Option

### TYPICAL PERFORMANCE (Temp @+25°C)

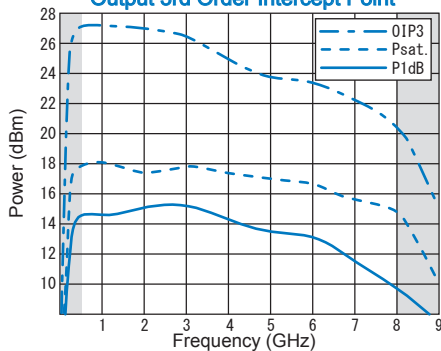
#### Small Signal Gain & Gain Flatness Input & Output Return Loss



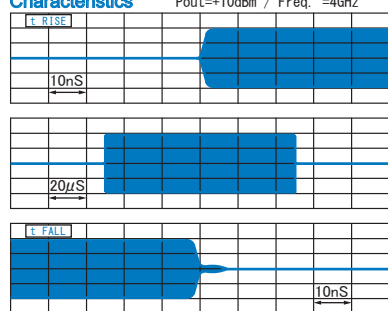
#### Noise Figure



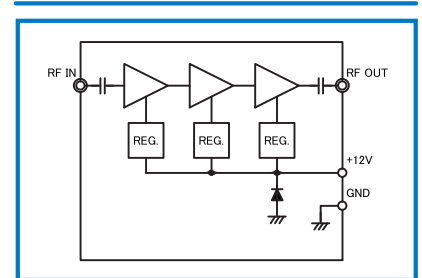
#### Output Power 1dB & Power Saturation Output 3rd Order Intercept Point



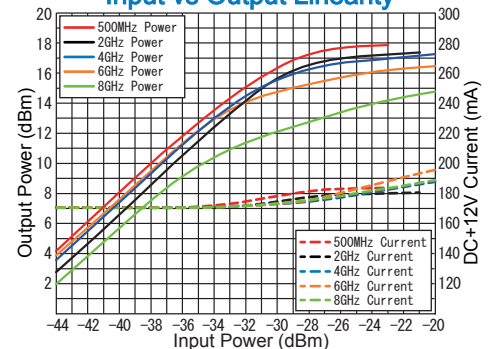
#### Pulse Characteristics



### SCHEMATIC



#### Input vs Output Linearity



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