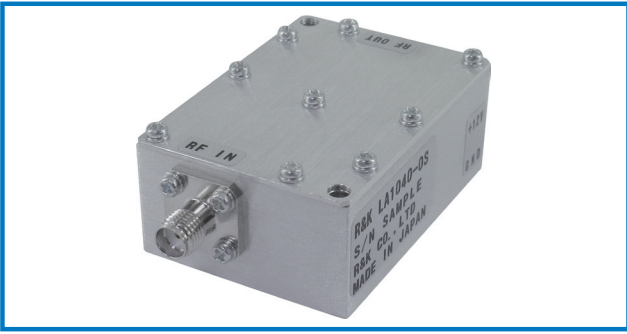


# LOW NOISE AMPLIFIER

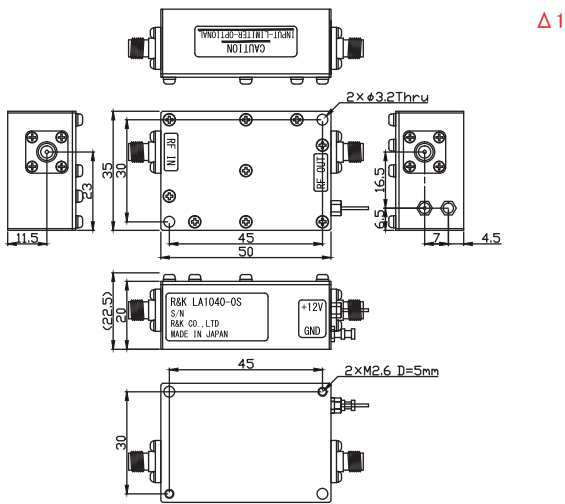


## R&K-LA1040-0S



### OUTLINE DRAWING

※IN MILLIMETERS



- 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

### SPECIFICATIONS

Frequency Range	: 600MHz ~ 4200MHz
Noise Figure @+25°C	: 1.2dB (typ.)
-20°C to +60°C	: 2.0dB (max.)
Small Signal Gain	: +32dB (typ.) @2GHz
	: +30dB (min.)
Gain Flatness	: ±2.0dB (max.)
Output Power@1dB Comp.	: +20dBm (min.) @2GHz
Output I.C.P.	: +33dBm (typ.) @2GHz
Impedance	: 50 Ω
Input Return Loss	: 8dB (typ.)
Output Return Loss	: 10dB (typ.)
DC Supply Input	: +12V ±0.5V
	: 380mA (max.)
Maximum RF Input Power	: 0dBm
Operating Temperature	: -20°C to +60°C
Storage Temperature	: -20°C to +80°C
Connectors	: SMA-FEMALE
Weight	: 85g (typ.)

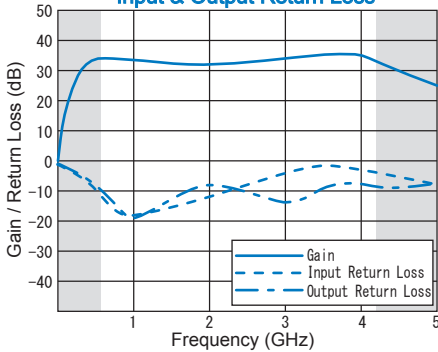
### HOW TO ORDER

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

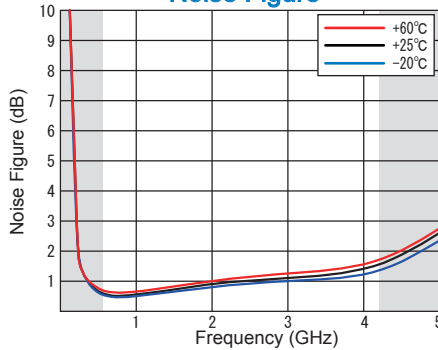
└─ No Option  
└─ 0 = Module  
└─ 1 = With Heatsink

### TYPICAL PERFORMANCE (Temp @+25°C)

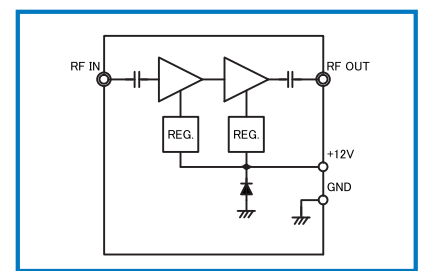
#### Small Signal Gain & Gain Flatness Input & Output Return Loss



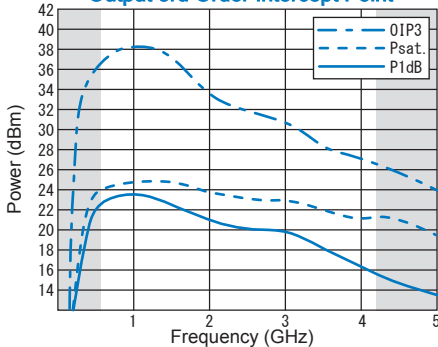
#### Noise Figure



#### SCHEMATIC

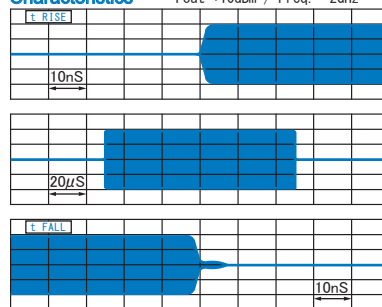


#### Output Power 1dB & Power Saturation Output 3rd Order Intercept Point

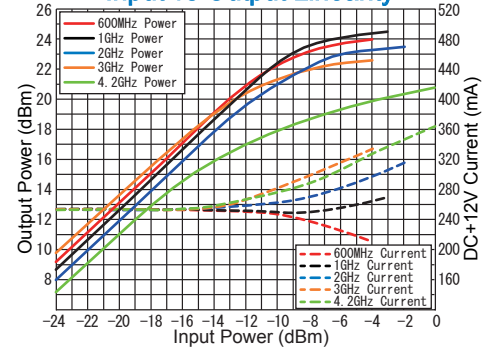


#### Pulse Characteristics

Pulse Width 100 μs / Duty 10%  
 Pout=+10dBm / Freq. =2GHz



#### Input vs Output Linearity



\* CHANGE Δ1 30/May/2018

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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