

LOW NOISE AMPLIFIER

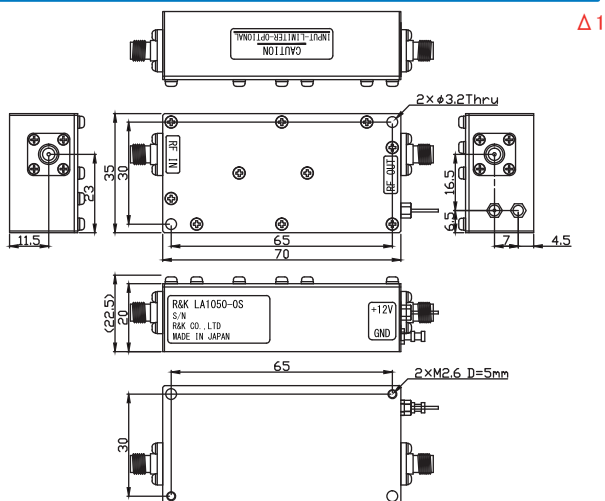


R&K-LA1050-0S



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 600MHz ~ 4200MHz
- Noise Figure : 1.2dB (typ.) / 2dB (max.)
- Output Power : +20dBm @2GHz
- Small Signal Gain : +44dB (typ.) @2GHz
- Low Cost
- RoHS Compliance

SPECIFICATIONS

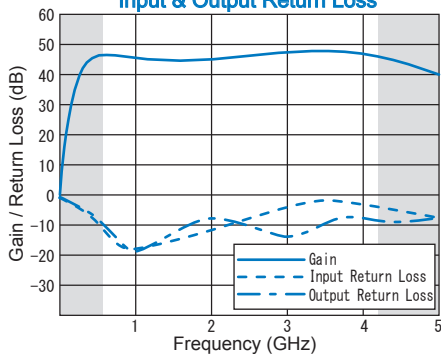
Frequency Range	: 600MHz ~ 4200MHz
Noise Figure @+25°C	: 1.2dB (typ.)
-20°C to +60°C	: 2.0dB (max.)
Small Signal Gain	: +44dB (typ.) @2GHz
	: +42dB (min.)
Gain Flatness	: ±2.5dB (max.)
Output Power@1dB Comp.	: +20dBm (min.) @2GHz
Output I.C.P.	: +33dBm (typ.) @2GHz
Impedance	: 50 Ω
Input Return Loss	: 8dB (typ.)
Output Return Loss	: 10dB (typ.)
DC Supply Input	: +12V ±0.5V
	: 420mA (max.)
Maximum RF Input Power	: -15dBm
Operating Temperature	: -20°C to +60°C
Storage Temperature	: -20°C to +80°C
Connectors	: SMA-FEMALE
Weight	: 120g (typ.)

HOW TO ORDER

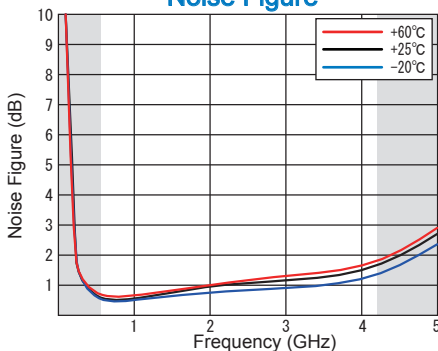
Model Name
R&K-LA1050-0S └ No Option
└ 0 = Module
└ 1 = With Heatsink

TYPICAL PERFORMANCE (Temp @+25°C)

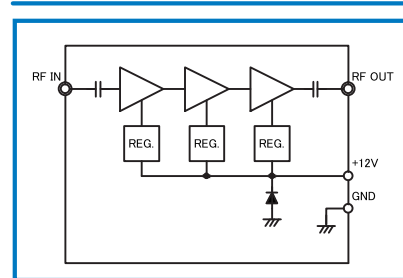
Small Signal Gain & Gain Flatness Input & Output Return Loss



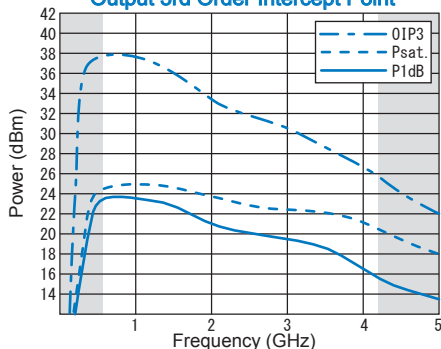
Noise Figure



SCHEMATIC

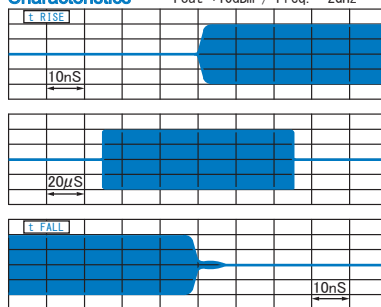


Output Power 1dB & Power Saturation Output 3rd Order Intercept Point

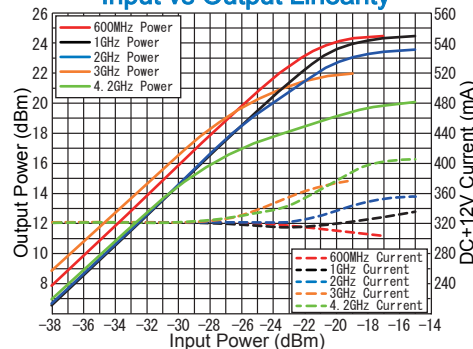


Pulse Characteristics

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



Input vs Output Linearity



* CHANGE Δ1 30/May/2018

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