

SMALL SIGNAL AMPLIFIER



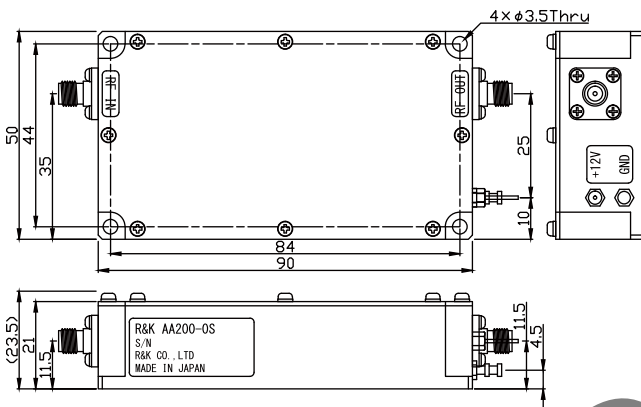
Ver.2.0 : 2020.04.01

R&K-AA200-0S



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 50MHz~3000MHz
- Output Power : +35dBm @2GHz
- Small Signal Gain : +27dB (typ.) @2GHz
- Low Cost
- RoHS Compliance

SPECIFICATIONS

| | |
|---|--|
| Frequency Range | : 50MHz ~ 3000MHz |
| Small Signal Gain | : +27dB (typ.) @2GHz : +25dB (min.) |
| Gain Flatness | : ±2.0dB (max.) |
| Output Power@1dB Comp. | : +35dBm (min.) @2GHz |
| Output I.C.P. | : +45dBm (typ.) @2GHz |
| Noise Figure | : 8.0dB (max.) |
| Impedance | : 50 Ω |
| Input Return Loss | : 10dB (typ.) |
| Output Return Loss | : 6dB (typ.) |
| DC Supply Input | : +12V ±0.5V : 1800mA (max.) |
| Maximum RF Input Power | : +13dBm |
| Operating Temperature (@Base Plate Temp.) | : -20°C to +60°C |
| Storage Temperature | : -20°C to +80°C |
| Connectors (Standard) | : SMA-FEMALE |
| (Option) | : BNC-FEMALE : N-FEMALE |
| Weight (AA200-0S) | : 165g (typ.) |

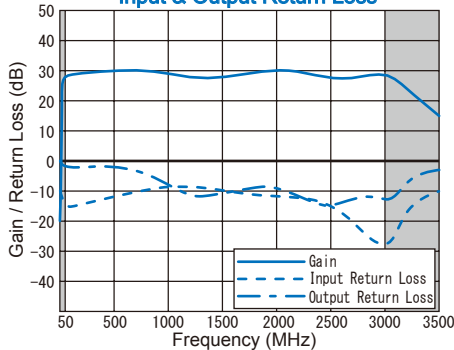
HOW TO ORDER

Model Name
R&K-AA200-0S

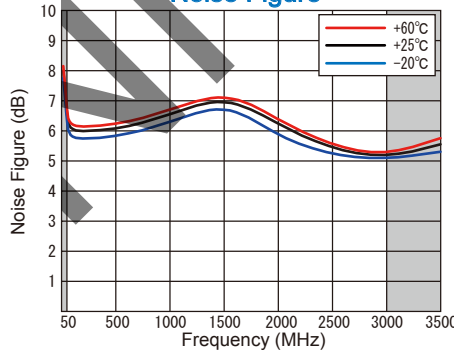
- S = SMA-FEMALE
- B = BNC-FEMALE
(BNC Operational to 1GHz)
- N = N-FEMALE
- 0 = Module
- 1 = With Heatsink & Fan

TYPICAL PERFORMANCE (Temp @+25°C)

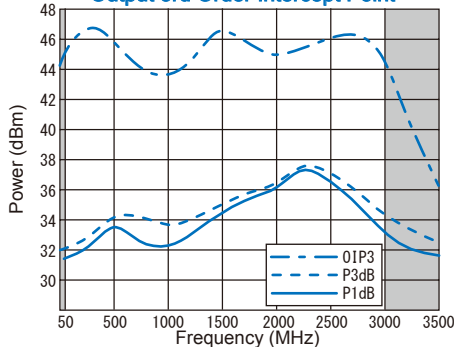
Small Signal Gain & Gain Flatness Input & Output Return Loss



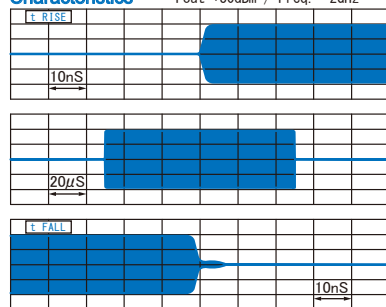
Noise Figure



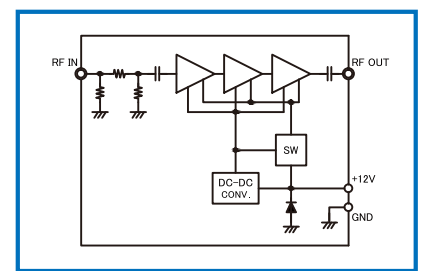
Output Power 1dB & 3dB Comp. Output 3rd Order Intercept Point



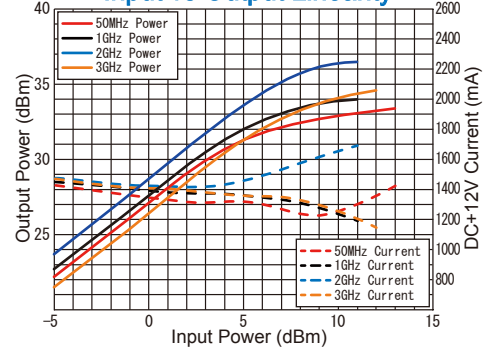
Pulse Characteristics



SCHEMATIC



Input vs Output Linearity



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R&K-AA200-0S

Revision history

| Date | Version Number | Detailed contents of the change. |
|------------|----------------|--|
| 2008/11/25 | 1.0 | First edition issued. |
| 2020/04/01 | 2.0 | Outline drawing change. Specifications change. - Output I. C. P. : +44dBm (typ.) @2GHz ⇒ +45dBm (typ.) @2GHz - Noise Figure : 10.0dB (max.) ⇒ 8.0dB (max.) - DC Supply Input : +12V ±0.5V, 1.6A (max.) ⇒ +12V ±0.5V, 1800mA (max.) - Maximum RF Input Power : +15dBm ⇒ +13dBm - Weight : 170g (typ.) ⇒ 165g (typ.) |

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