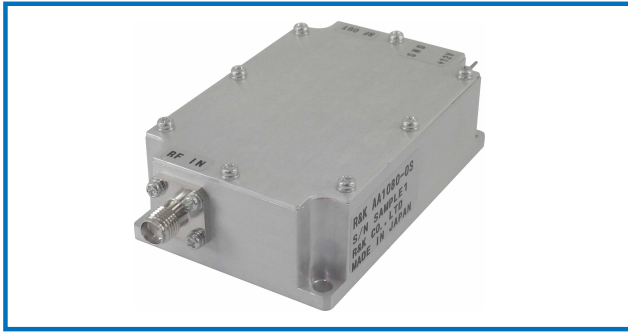


SMALL SIGNAL AMPLIFIER



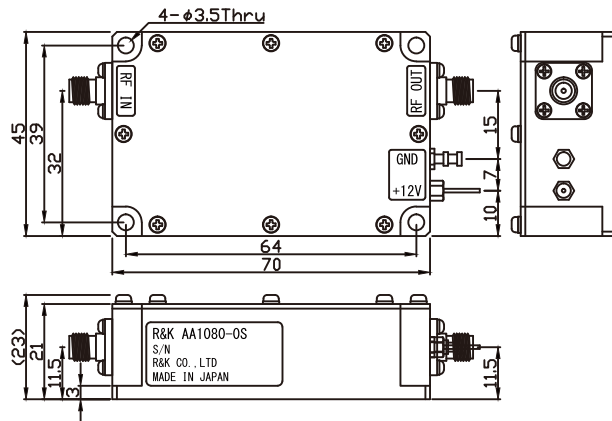
Ver.2.0 : 2021.07.01

R&K-AA1080-0S



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 1MHz ~ 3000MHz
- Output Power : +29dBm @2GHz
- Small Signal Gain : +20dB (typ.) @2GHz
- Gain Flatness : ±1.5dB (max.)
- Low Cost
- RoHS Compliance

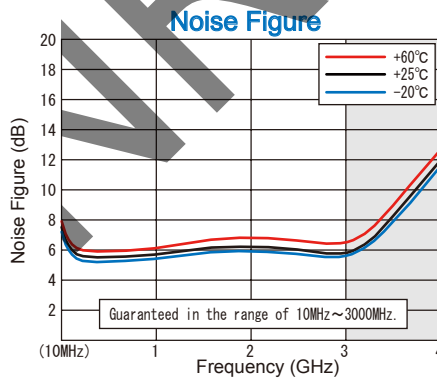
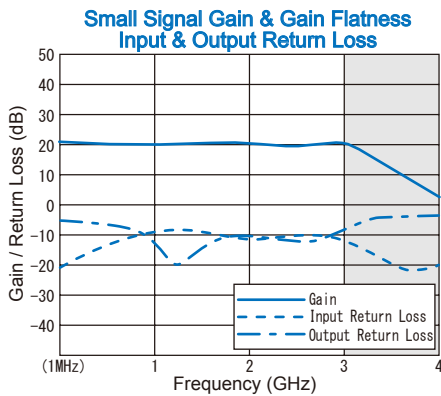
SPECIFICATIONS

- Frequency Range : 1MHz ~ 3000MHz
- Small Signal Gain : +20dB (typ.) @2GHz
+17dB (min.)
- Gain Flatness : ±1.5dB (max.)
- Output Power@1dB Comp. : +29dBm (min.) @2GHz
- Output I.C.P. : +41dBm (typ.) @2GHz
- Noise Figure : 9.0dB (max.)
- NOTE: N.F.value is only guaranteed in the range of 10MHz ~ 3000MHz.
- Impedance : 50Ω
- Input Return Loss : 10dB (typ.)
- Output Return Loss : 10dB (typ.)
- DC Supply Input : +12V ±0.5V
650mA (max.)
- Maximum RF Input Power : +18dBm
- Operating Temperature : -20°C to +60°C
- Storage Temperature : -20°C to +80°C
- Connectors (Standard) : SMA-FEMALE
(Option) : BNC-FEMALE
: N-FEMALE
- Weight (AA1080-0S) : 120g (typ.)

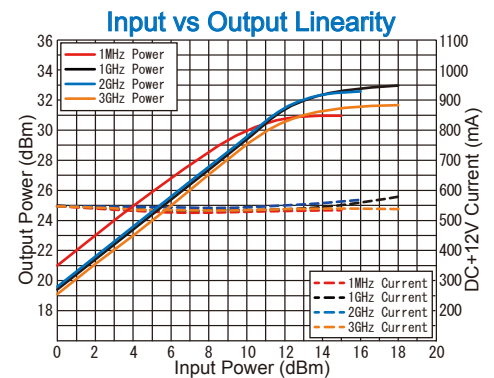
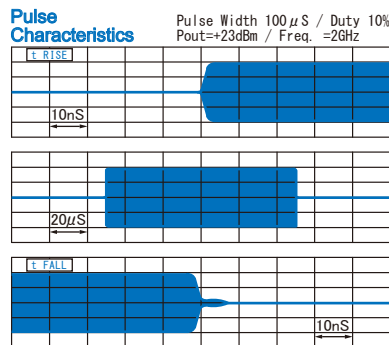
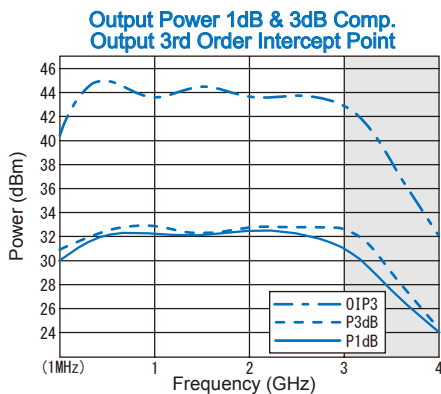
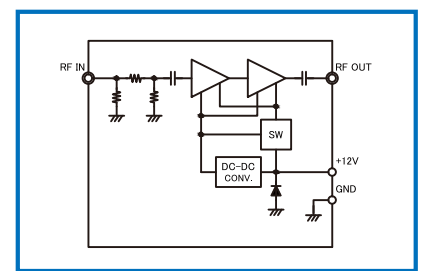
HOW TO ORDER

- Model Name R&K-AA1080-0S
- S = SMA-FEMALE
 - B = BNC-FEMALE (BNC Operational to 1GHz)
 - N = N-FEMALE
 - 0 = Module
 - 1 = With Heatsink

TYPICAL PERFORMANCE (Temp @+25°C)



SCHEMATIC



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".

R&K Company Limited

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Fax : +81-545-31-1600 URL : http://rk-microwave.com

R&K-AA1080-OS

Revision history

Date	Version Number	Detailed contents of the change.
2017/11/10	1.0	First edition issued.
2021/07/01	2.0	Specifications change. - Small Signal Gain : +18dB (typ.) @2GHz ⇒ +20dB (typ.) @2GHz : ±16dB (min.) ⇒ ±17dB (min.) - Maximum RF Input Power : +20dBm ⇒ +18dBm

VR1

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