SMALL SIGNAL AMPLIFIER

R&K-AA1120-0S

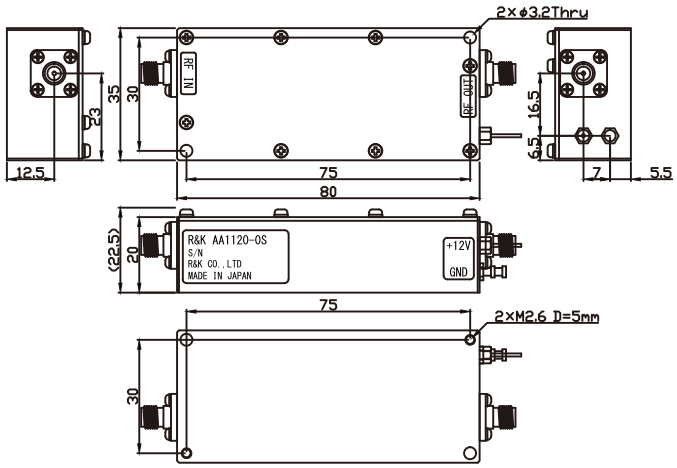
- Broadband Frequency : 9kHz～3500MHz
- Output Power : +17dBm @2GHz
- Small Signal Gain : +31dB(typ.) @2GHz
- Gain Flatness : ±2.0dB(max.)
- Low Cost
- RoHS Compliance

SPECIFICATIONS

Frequency Range	: 9kHz ~ 3500MHz
Small Signal Gain	: +31dB (typ.) @2GHz
	: +28dB (min.)
Gain Flatness	: ±2.0dB (max.)
Output Power@1dB Comp.	: +17dBm (min.) @2GHz
Output I.C.P.	: +31dBm (typ.) @2GHz
Noise Figure	: 6.0dB (max.)
NOTE: N.F.value is only guaranteed in the range of 10MHz ~ 3500MHz.	
Impedance	: 50Ω
Input Return Loss	: 18dB (typ.)
Output Return Loss	: 13dB (typ.)
DC Supply Input	: +12V ±0.5V
	: 220mA (max.)
Maximum RF Input Power	: −5dBm
Operating Temperature	: −20℃ to +60℃
Storage Temperature	: −20℃ to +80℃
Connectors (Standard)	: SMA-FEMALE
(Option)	: BNC-FEMALE
	: N-FEMALE
Weight (SMA Connector)	: 120g (typ.)

OUTLINE DRAWING

※IN MILLIMETERS



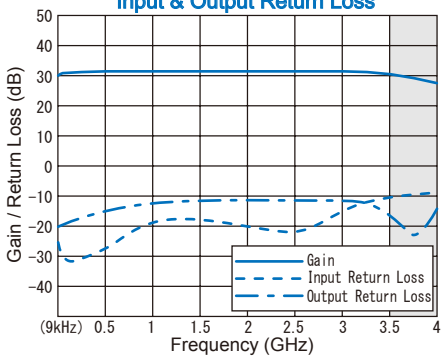
HOW TO ORDER

Model Name
R&K-AA1120-0S

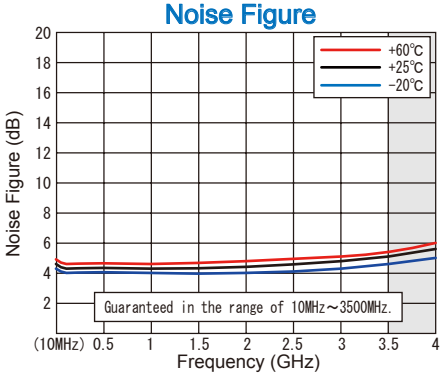
- S = SMA-FEMALE
- B = BNC-FEMALE (BNC Operational to 1GHz)
- N = N-FEMALE

TYPICAL PERFORMANCE (Temp @+25℃)

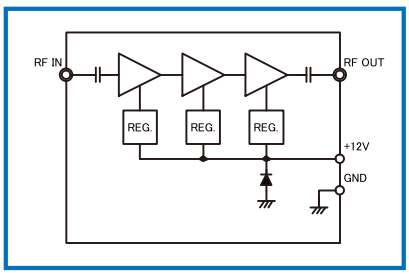
Small Signal Gain & Gain Flatness Input & Output Return Loss



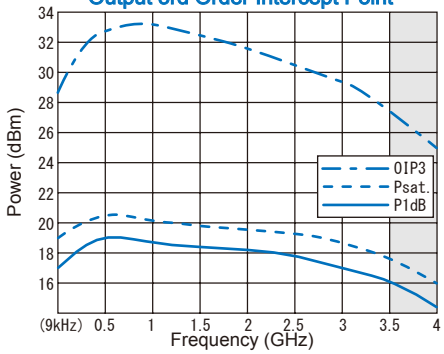
Noise Figure



SCHEMATIC

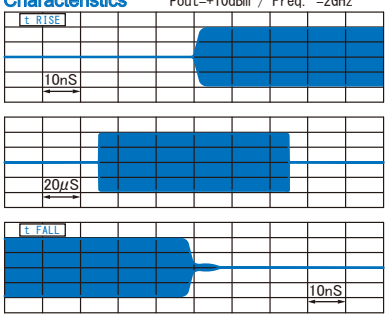


Output Power 1dB & Power Saturation Output 3rd Order Intercept Point

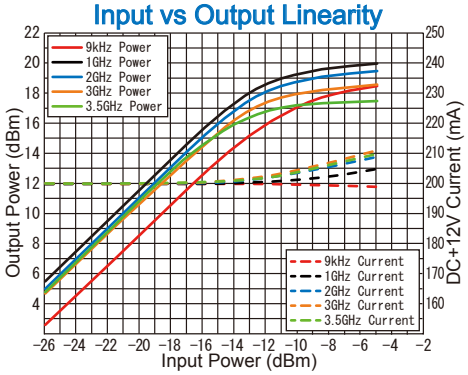


Pulse Characteristics

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



Input vs Output Linearity



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