

SMALL SIGNAL AMPLIFIER

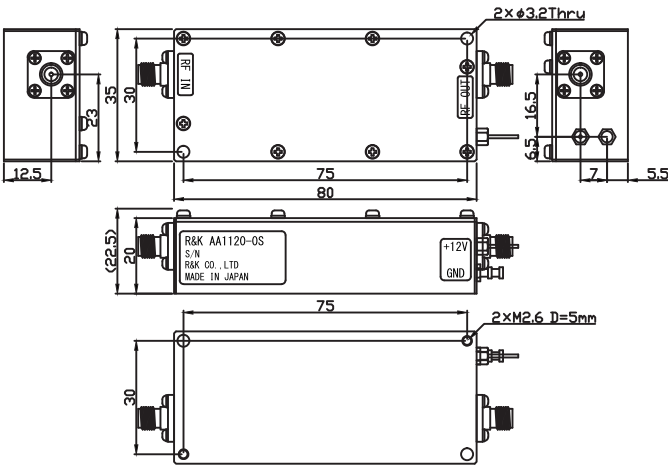


R&K-AA1120-0S



OUTLINE DRAWING

※IN MILLIMETERS



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

SPECIFICATIONS

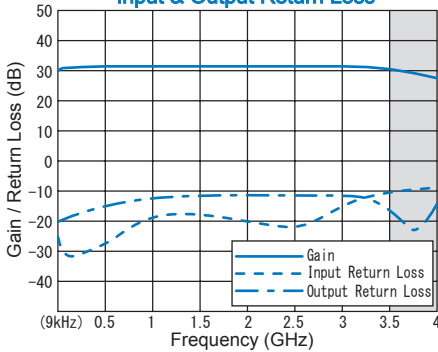
Frequency Range	: 9kHz ~ 3500MHz
Small Signal Gain	: +31dB (typ.) @2GHz : +28dB (min.)
Gain Flatness	: ± 2.0 dB (max.)
Output Power@1dB Comp.	: +17dBm (min.) @2GHz
Output I.C.P.	: +31dBm (typ.) @2GHz
Noise Figure	: 6.0dB (max.)
NOTE: N.F.value is only guaranteed in the range of 10MHz ~ 3500MHz.	
Impedance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

HOW TO ORDER

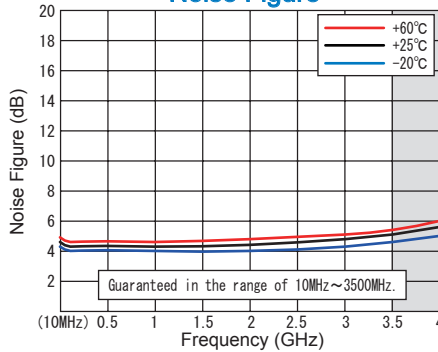
Model Name	R&K-AA1120-0S	S = SMA-FEMALE
		B = BNC-FEMALE
		(BNC Operational to 1GHz)
		N = N-FEMALE

TYPICAL PERFORMANCE (Temp @+25°C)

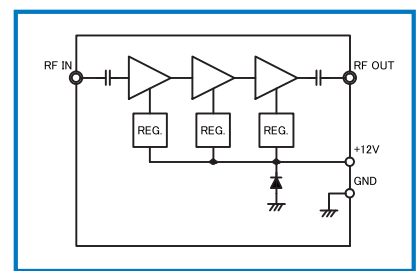
Small Signal Gain & Gain Flatness Input & Output Return Loss



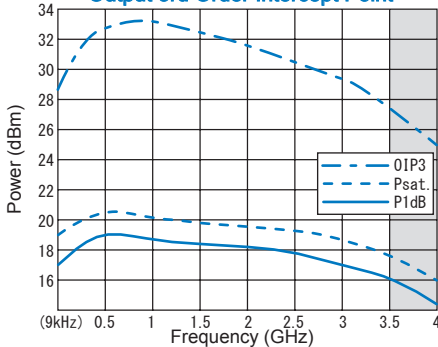
Noise Figure



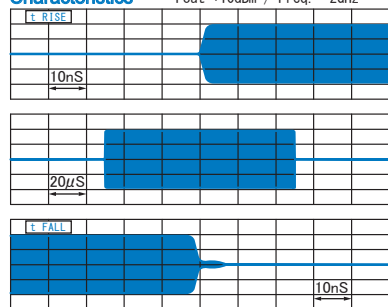
SCHEMATIC



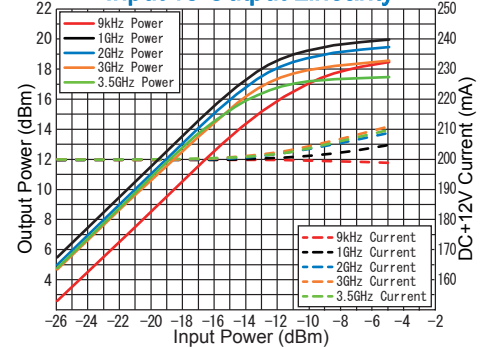
Output Power 1dB & Power Saturation Output 3rd Order Intercept Point



Pulse Characteristics



Input vs Output Linearity



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