

SMALL SIGNAL AMPLIFIER

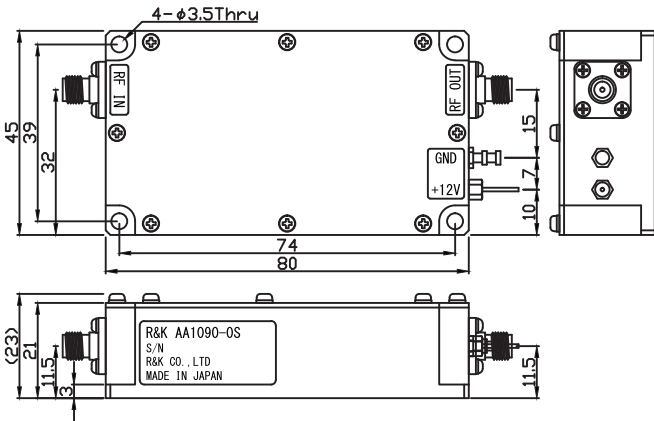


R&K-AA1090-0S



OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 1MHz ~ 3000MHz
- Output Power : +29dBm @2GHz
- Small Signal Gain : +29dB (typ.) @2GHz
- Gain Flatness : ±2.0dB (max.)
- Low Cost
- RoHS Compliance

SPECIFICATIONS

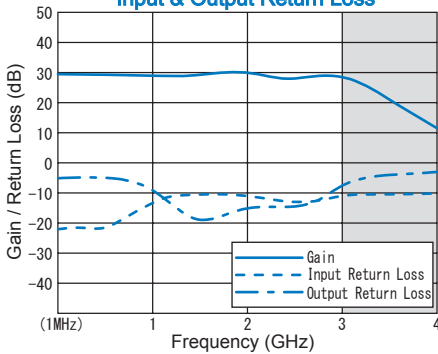
Frequency Range	: 1MHz ~ 3000MHz
Small Signal Gain	: +29dB (typ.) @2GHz : +26dB (min.)
Gain Flatness	: ±2.0dB (max.)
Output Power@1dB Comp.	: +29dBm (min.) @2GHz
Output I.C.P.	: +41dBm (typ.) @2GHz
Noise Figure	: 9.0dB (max.)
NOTE: N.F.value is only guaranteed in the range of 10MHz ~ 3000MHz.	
Impedance	: 50Ω
Input Return Loss	: 10dB (typ.)
Output Return Loss	: 10dB (typ.)
DC Supply Input	: +12V ±0.5V : 800mA (max.)
Maximum RF Input Power	: +10dBm
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)	: 140g (typ.)

HOW TO ORDER

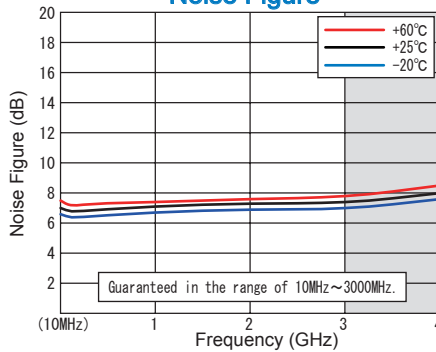
Model Name	S = SMA-FEMALE
R&K-AA1090-0S	B = BNC-FEMALE (BNC Operational to 1GHz)
	N = N-FEMALE
	0 = Module
	1 = With Heatsink

TYPICAL PERFORMANCE (Temp @+25°C)

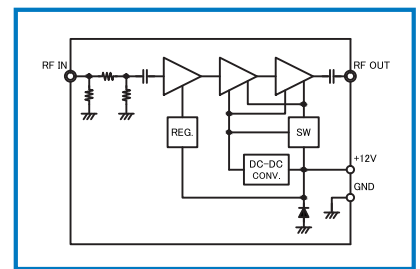
Small Signal Gain & Gain Flatness Input & Output Return Loss



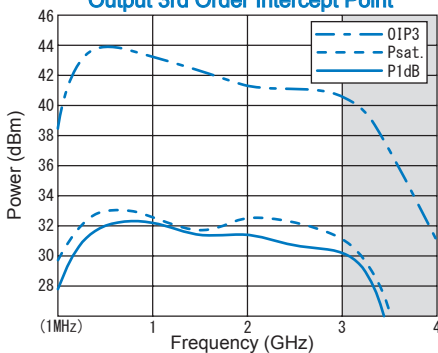
Noise Figure



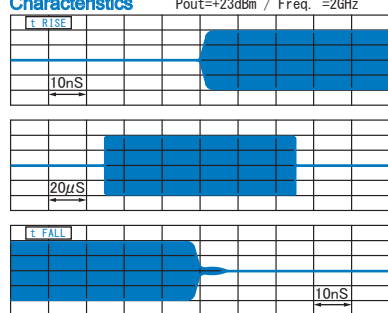
SCHEMATIC



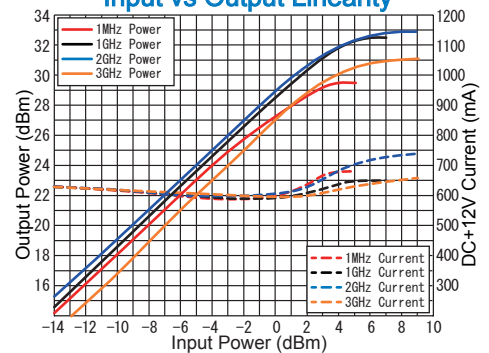
Output Power 1dB & Power Saturation Output 3rd Order Intercept Point



Pulse Characteristics



Input vs Output Linearity



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