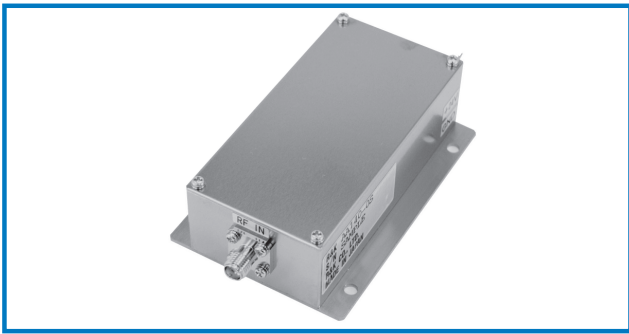


# SMALL SIGNAL AMPLIFIER

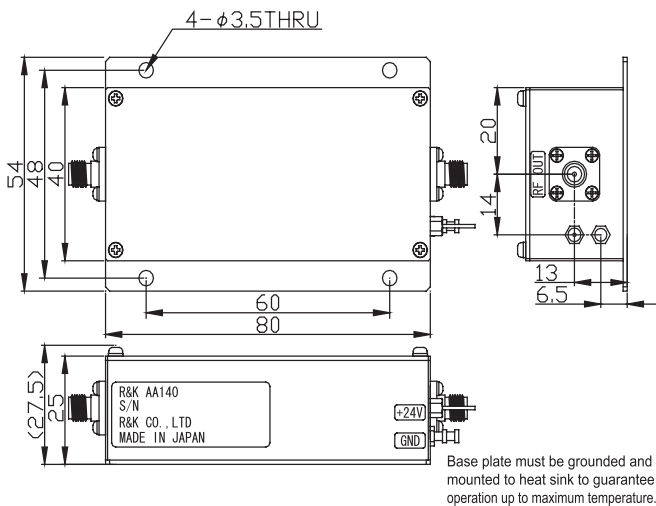


## R&K-AA140-0S



### OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency : 40MHz ~ 1000MHz
- Output Power : +30dBm @400MHz
- Gain Flatness : ±1.0dB (max.)
- Low Cost
- RoHS Compliance

### SPECIFICATIONS @ +25°C

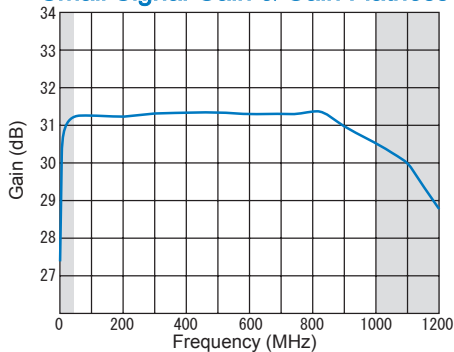
Frequency Range	: 40MHz ~ 1000MHz
Small Signal Gain	: +31.0dB (typ.) @400MHz : +29.0dB (min.)
Gain Flatness	: ±1.0dB (max.)
Output Power@1dB Comp.	: +30.0dBm (min.) @400MHz
Output I.C.P.	: +41.0dBm (typ.) @400MHz
Noise Figure	: 7.0dB (max.)
Impedance	: 50Ω
Input VSWR	: 1.3 : 1 (typ.)
Output VSWR	: 1.8 : 1 (typ.)
DC Supply Input	: +24V ±1V : 350mA (max.) Δ1
Maximum RF Input Power	: +5dBm
Operating Temperature (@Base Plate Temp.)	: -20°C to +60°C
Storage Temperature	: -20°C to +80°C
Connectors (Standard)	: SMA-FEMALE
Connectors (Option)	: BNC-FEMALE : N-FEMALE
Weight (SMA Connector)	: 145g (typ.)

### HOW TO ORDER

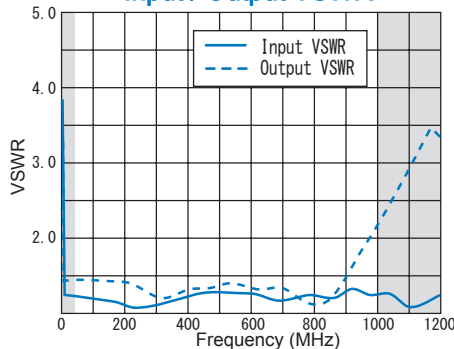
Model Name	R&K-AA140-0S	S = SMA - FEMALE
		B = BNC - FEMALE
		N = N - FEMALE
		0 = Module
		1 = With Heatsink

### TYPICAL PERFORMANCE (Temp @+25°C)

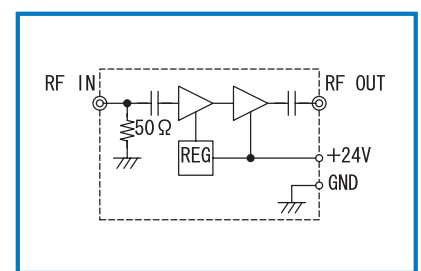
#### Small Signal Gain & Gain Flatness



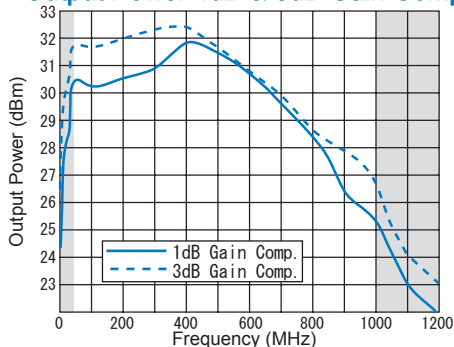
#### Input / Output VSWR



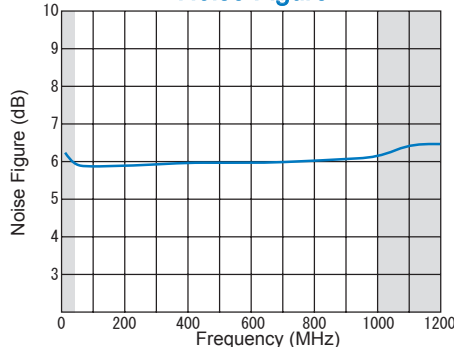
### SCHEMATIC



#### Output Power 1dB & 3dB Gain Comp.



#### Noise Figure



\*CHANGE Δ1 15/10/2010

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, R&K cannot export products to any country for use in military or defense applications.

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