

# SMALL SIGNAL AMPLIFIER



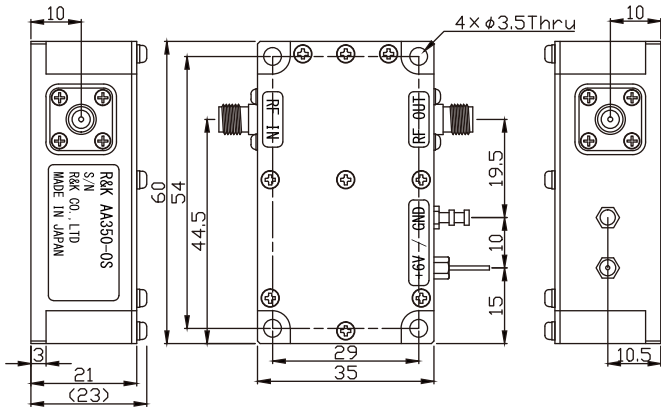
Ver.2.0 : 2022.01.19

## R&K-AA350-0S



### OUTLINE DRAWING

※IN MILLIMETERS



- Broadband Frequency: 5.8GHz~8.5GHz
- Output Power : +32dBm @7GHz
- Small Signal Gain : +28dB (typ.) @7GHz
- Low Cost
- RoHS Compliance

### SPECIFICATIONS

|  |  |
|--|--|
| Frequency Range                                  | : 5.8GHz ~ 8.5GHz                      |
| Small Signal Gain                                | : +28dB (typ.) @7GHz<br>: +26dB (min.) |
| Gain Flatness                                    | : ±2dB (max.)                          |
| Output Power@1dB Comp                            | : +32dBm (min.) @7GHz                  |
| Output I.C.P                                     | : +41dBm (typ.) @7GHz                  |
| Noise Figure                                     | : 8dB (max.)                           |
| Note. : Noise Figure is Design Value Guaranteed. |  |
| Impedance  | : 50Ω                                  |
| Input Return Loss                                | : 10dB (typ.)                          |
| Output return Loss                               | : 12dB (typ.)                          |
| DC Supply Input                                  | : +6V ±0.2V<br>: 1800mA (max.)         |
| Maximum RF Input Power                           | : +12dBm                               |
| Operating Temperature (@Base Plate Temp.)        | : -20°C to +60°C                       |
| Storage Temperature                              | : -20°C to +80°C                       |
| Connectors                                       | : SMA-Female                           |
| Weight   | : 80g (typ.)                           |

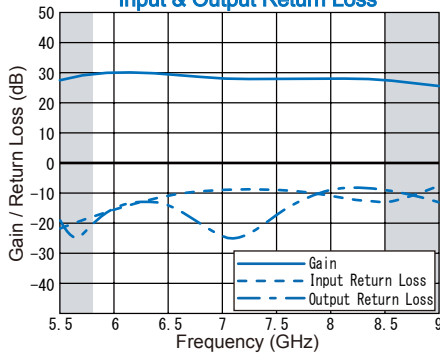
### HOW TO ORDER

Model Name  
R&K-AA350-0S

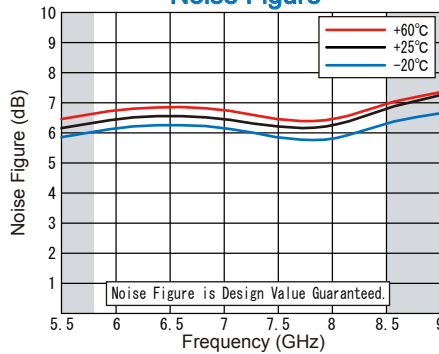
   No Option  
  0   =Module  
  1   =With Heat Sink

### TYPICAL PERFORMANCE (Temp @+25°C)

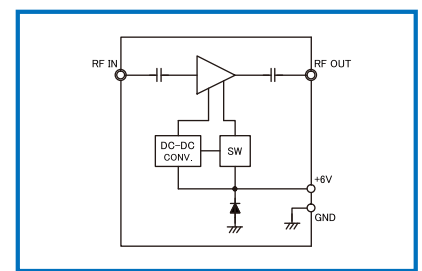
#### Small Signal Gain & Gain Flatness Input & Output Return Loss



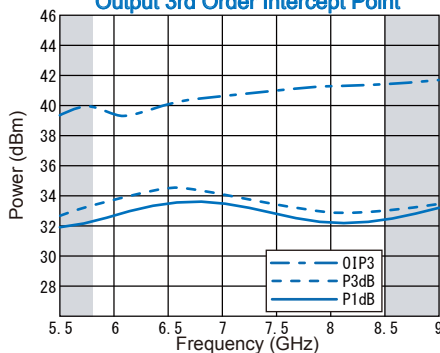
#### Noise Figure



#### SCHEMATIC

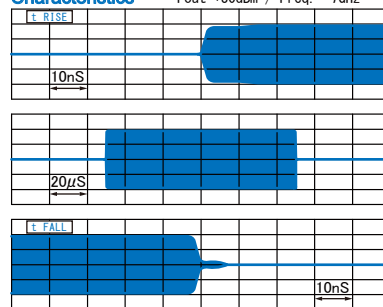


#### Output Power 1dB & 3dB Comp. Output 3rd Order Intercept Point

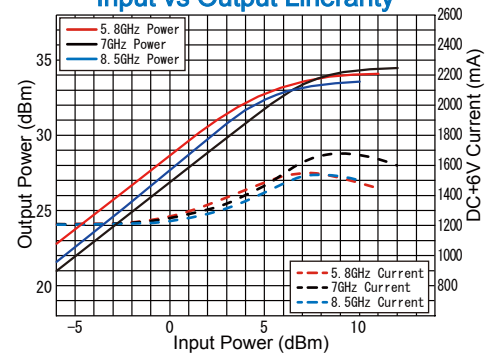


#### Pulse Characteristics

Pulse Width 100 μs / Duty 10%  
Pout→+30dBm / Freq. =7GHz



#### Input vs Output Linerarity



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